An Remodel and Change of Use for:

419 Apartments

LOCATION MAP

DATE:.... PROJECT NUMBER:

04/15/2020 2019.53

CITY OF TUCSON

HR-3

3,998 SF (EXISTING)

960 SF (EXISTING)

10,256 SF

1,360 SF

6,318 SF 62%

NORTH

PROJECT

419 S. 5th Ave. | Tucson, AZ 85701

W. 22nd STREET

419 S. 5th Ave. | Tucson, AZ 85701

RECORDS OF PIMA COUNTY, ARIZONA

GOVERNING CODE/AMENDMENTS:

2018 EXISTING BUILDING CODE

2018 INTERNATIONAL RESIDENTIAL CODE

CODE REVIEW

GOVERNING BODY:

EXISTING ZONING:

VEHICULAR USE AREA:

TOTAL LOT COVERAGE:

REQUIRED SETBACK:

LOT AREA:

DWELLING:

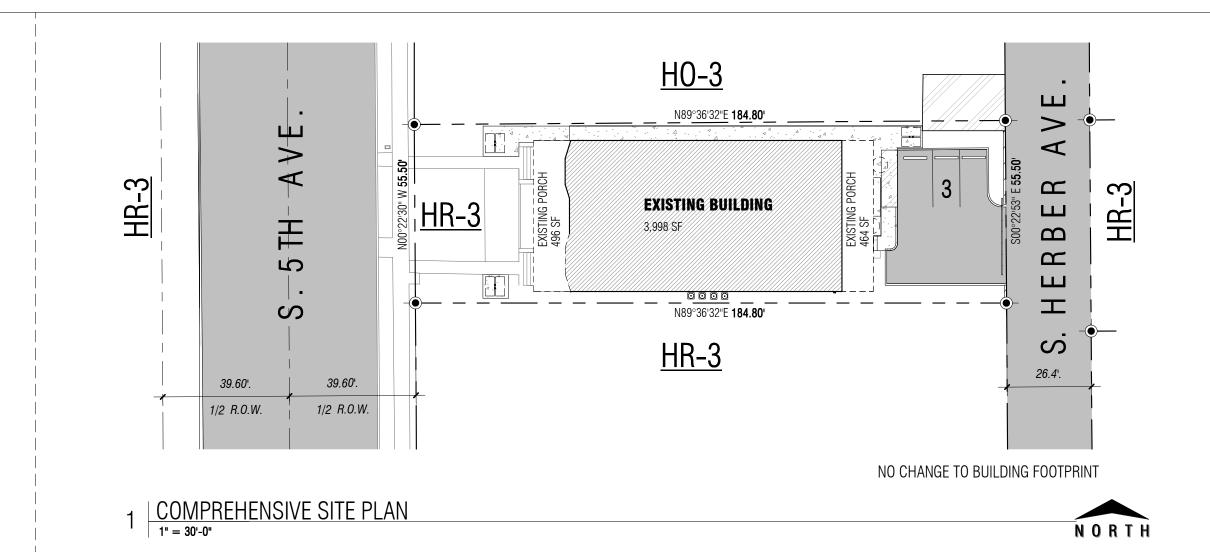
X General Keynote

X Demolition Keynote

Partition Type

X Revision

PORCH AREA:



GENERAL NOTES

- PERFORM WORK IN CONFORMANCE WITH INTERNATIONAL RESIDENTIAL CODE ADOPTED BY LOCAL AUTHORITIES AND ALL OTHER APPLICABLE CODES, ORDINANCES, LAWS AND OTHER REGULATIONS AND STANDARDS OF EACH AND EVERY GOVERNMENTAL AGENCY AND BUREAU HAVING JURISDICTION OVER THIS
- PROJECT. DRAWINGS ARE INTENDED TO SHOW AND DESCRIBE DETAILS FOR A COMPLETE INSTALLATION. EXECUTE PARTS AND DETAILS NOT FULLY SHOWN OR DESCRIBED ACCORDING TO STANDARD AND CUSTOMARY TRADE PRACTICE AND IN SIMILAR MANNER OF DETAILS WHICH ARE SHOWN ON DRAWINGS OR DESCRIBED IN
- SPECIFICATIONS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE BEFORE COMMENCING WORK AND SHALL RESOLVE ANY DISCREPANCIES WITH THE ARCHITECT. DO NOT OFF SITE FABRICATE ANY MATERIALS, NOR DO ANY CONSTRUCTION UNTIL VERIFICATION OF ACCURACY OF DRAWING DIMENSIONS WITH ACTUAL FIELD CONDITIONS IS DONE.
- ALL CONTRACTORS ARE RESPONSIBLE FOR THE DAILY REMOVAL OF ALL ACCUMULATED DEBRIS RESULTING FROM THEIR WORK THAT DAY. LAWFULLY REMOVE ALL SCRAPS, DEBRIS, AND OTHER EXCESS MATERIALS FROM THE SITE, OR AS OTHERWISE MAY BE DIRECTED.
- CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PREVENT MOVEMENT AND SETTLEMENT OF STRUCTURES. PROVIDE AND PLACE BRACING OR SHORING AND BE RESPONSIBLE FOR SAFETY AND SUPPORT OF STRUCTURE. LIABILITY FOR SUCH MOVEMENT, SETTLEMENT, COLLAPSE, DAMAGES OR INJURY SHALL REST WITH
- DO NOT USE SCALED DIMENSIONS, USE WRITTEN DIMENSIONS OR WHERE NO DIMENSION IS PROVIDED, CONSULT THE ARCHITECT FOR CLARIFICATION BEFORE
- PROCEEDING WITH THE WORK. DETAILS SHOWN SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATE
- LOCATIONS WHETHER SPECIFICALLY CALLED OUT OR NOT. OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT
- AND RESOLVED BEFORE PROCEEDING WITH THE WORK. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY IN PROTECTING THE STRUCTURE DURING CONSTRUCTION, AND SHALL PROVIDE THE FOLLOWING WHICH INCLUDES, BUT NOT BE LIMITED TO BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC.
- WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN. WHERE NO SPECIFIC DETAIL IS SHOWN IT IS THE ARCHITECTS INTENTION THAT CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.
- ALL ACCESS DOORS FROM CONDITION SPACES TO UNCONDITIONED SPACES SHALL BE WEATHER-STRIPPED AND INSULATION TO A LEVEL EQUIVALENT TO THE INSULATION ON THE SURROUNDING SURFACES PER IRC. SEC. N1102.2.4.

PROJECT SYMBOLS LEGEND

| ROOM TAG | | ROOM NAME AREA CEILING HT |
|--------------------|---|---|
| WINDOW TAG | | 4040 XO Size Operation AFF: 3'-0 Sill height |
| DOOR TAG | | Door Height Door Width Hardware |
| STRUCTURAL GRID | | A |
| ENLARGED PLAN TAG | | X Detail Number Sheet Number |
| SECTION DETAIL TAG | I | X Detail Number Sheet Number |
| | | |

SCOPE OF WORK

GENERAL ANNOTATION

THE SCOPE OF WORKS CONSISTS OF REMODELING AN EXISTING RESIDENCE BUILDING DIVIDED IN 4 RENTAL APARTMENTS AND ADDING PARKING SPACES AT THE EAST SIDE. THE WORK INCLUDES BUT IS NOT LIMITED TO:

- ARCHITECTURE: DEMOLISH EXISTING PARTITION WALLS AND ENCLOSED SPACES AT BACK PORCH NEW APARTMENTS SPACE DESIGN/DISTRIBUTION
- NEW GWB CEILING STRUCTURE:

NEW PARTITION WALLS FRAMING



GGV Designs, PLLC 520.204.2162 | 2536 E. 6th Street; Tucson, Az 85716

Apartments 6

5th Ave. | Tucson,

Revision Schedule

Description

Date

| and other infor | s are the instruments of service and the property of GGV Designs,PLLC. All design mation on the drawings are for the purposes of this project and shall not be used but the expressed written permission of GGV Designs, PLLC. |
|-----------------------------------|--|
| Drawn: Date: Scale: Job: | GGV, FGC 04/15/2020 As indicated 2019.53 |
| TITLE: | TITLE SHEET |

NO CHANGE TO BUILDING FOOT PRINT.

| SHE | ET INDEX | |
|------|--------------|---|
| SEQ. | SHEET NUMBER | SHEET NAME |
| 1 | T1.0 | TITLE SHEET |
| 2 | C1 | COVER SHEET AND SHEET INDEX (FOR REFERENCE ONLY) |
| 3 | C2 | SITE PLAN (FOR REFERENCE ONLY) |
| 4 | C3 | GRADING AND PAVING PLAN (FOR REFERENCE ONLY) |
| 5 | C4 | HORIZONTAL CONTROL (FOR REFERENCE ONLY) |
| 6 | C5 | DEMOLITION PLAN (FOR REFERENCE ONLY) |
| 7 | LS1.0 | LANDSCAPE PLAN, NOTES + DETAILS (FOR REFERENCE ONLY) |
| 8 | AS1.0 | ARCHITECTURAL SITE PLAN |
| 9 | D1.0 | DEMOLITION PLAN |
| 10 | A1.0 | FLOOR PLAN |
| 11 | A2.0 | PARTITION TYPES, DOOR SCHEDULES, WINDOW DETAIL, FIRE STOP DETAILS |
| 12 | A3.0 | EXTERIOR ELEVATIONS + NOTES |
| 13 | M1.0 | MECHANICAL FLOOR PLAN |
| 14 | M2.0 | MECHANICAL DETAIL AND NOTES |
| 15 | P1.0 | PLUMBING WASTE FLOOR PLAN |
| 16 | P1.1 | PLUMBING WATER FLOOR PLAN |
| 17 | P2.0 | PLUMBING DETAILS |
| 18 | P3.0 | PLUMBING SCHEDULES AND NOTES |
| 19 | E1.0 | LIGHTING + POWER FLOOR PLAN |
| 20 | E2.0 | ONE-LINE DIAGRAM AND SCHEDULES |
| 21 | E3.0 | ELECTRICAL SPECIFICATIONS |
| ۷۱ | LJ.U | ELECTRICAL OF ECH TOATIONS |

2. GROSS AREA: 10,049 SF OR 0.23 AC

- 3. THE DEVELOPER, ANY SUCCESSORS AND ASSIGNS, WILL HOLD THE CITY OF TUCSON, ITS OFFICERS, EMPLOYEES, AND AGENTS HARMLESS FROM ANY AND ALL CLAIMS FOR DAMAGES RELATED TO THE USE OF THIS DEVELOPMENT AS SHOWN HEREON, NOW AND IN THE FUTURE, BY REASON OF FLOODING. FLOWAGE. EROSION, OR DAMAGE CAUSED BY WATER, WHETHER SURFACE FLOOD OR RAINFALL.
- 4. DRAINAGE WILL REMAIN IN ITS NATURAL STATE AND WILL NOT BE ALTERED, DISTURBED OR OBSTRUCTED OTHER THAN AS SHOWN ON THIS DEVELOPMENT PLAN.
- 5. ANY DRAINAGE IMPROVEMENTS WITHIN AND ADJACENT TO THIS DEVELOPMENT SHALL BE BUILT IN ACCORDANCE WITH THE CITY OF TUCSON TECHNICAL STANDARDS MANUAL AND THE PIMA ASSOCIATION OF GOVERNMENTS STANDARD SPECIFICATIONS AND DETAILS.
- 6. NO STRUCTURE OR VEGETATION SHALL BE LOCATED OR MAINTAINED SO AS TO INTERFERE WITH THE SIGHT VISIBILITY TRIANGLES IN ACCORDANCE WITH TECHNICAL STANDARD SECTION 10-01.0.0.
- 7. ANY RELOCATION OR MODIFICATION OF EXISTING UTILITIES AND/OR PUBLIC IMPROVEMENTS NECESSITATED BY THE PROPOSED DEVELOPMENT WILL BE AT NO EXPENSE TO THE PUBLIC.
- 8. EACH HANDICAP PARKING SPACE WILL HAVE:

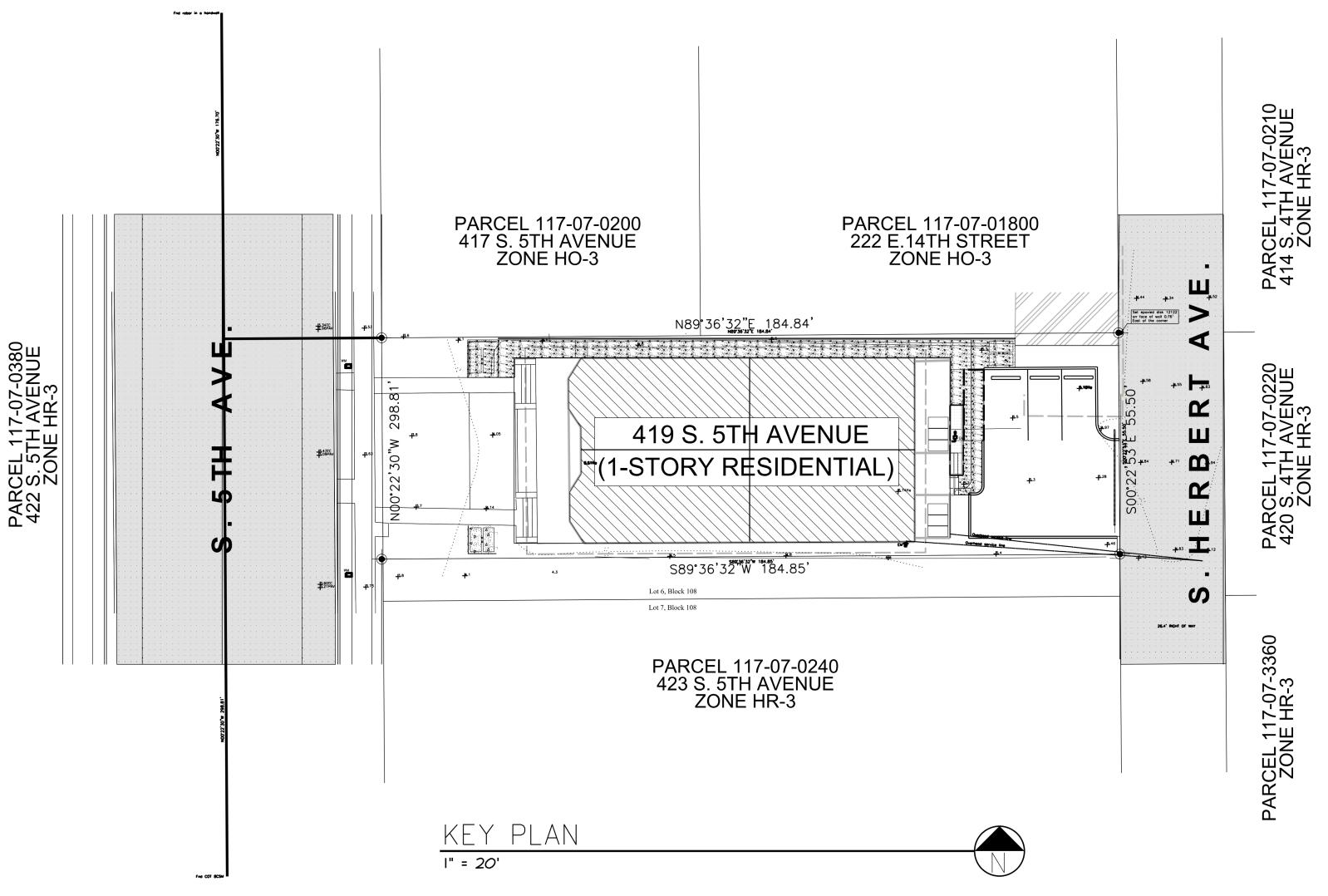
ADDITION TO THE DISABLED PARKING SIGN

FOR COMPLETION OF WORK.

- A. PERMANENTLY POSTED METAL SIGN CONFORMING TO TUCSON CODE SECTION 20-222.
- B. THE INTERNATIONAL HANDICAP SYMBOL PAINTED IN THE SPACE, AND C. MAXIMUM GRADE IN DISABLED SPACE AND ACCESS AISLE IS 2%. D. VAN ACCESSIBLE SPACES SHALL HAVE A "VAN ACCESSIBLE" SIGN IN
- E. ALL ACCESSIBILITY REQUIREMENTS SHALL BE AS PER THE 2010 ADASAD. F. THE BOTTOM OF SIGN SHALL MEASURE SEVEN (7) FEET ABOVE GRADE
- 9. THIS APPROVED GRADING AND PAVING PLAN CONTAINED WITHIN THIS DEVELOPMENT PACKAGE FOR THIS PROJECT IS THE ONLY ACCEPTABLE CONSTRUCTION PLAN ONSITE. THE CONTRACTOR MAY NOT USE ANY OTHER PLANS, SUCH AS THE APPROVED DEVELOPMENT PLAN SHEETS, WITHIN THIS PACKAGE FOR CONSTRUCTION PURPOSES. THE CONTRACTOR MAY ASK THE COT DEVELOPMENT SERVICES INSPECTOR TO CONSULT WITH OTHER APPROVED PLANS FOR ADDITIONAL INFORMATION OR DETAILS THAT MIGHT NOT BE INCLUDED ON THESE APPROVED GRADING AND PAVING PLANS BUT IS NEEDED

LEE RESIDENCE SITE IMPROVEMENT PLANS

419 S. 5TH AVENUE, TUCSON, AZ



EARTHWORK QUANTITIES:

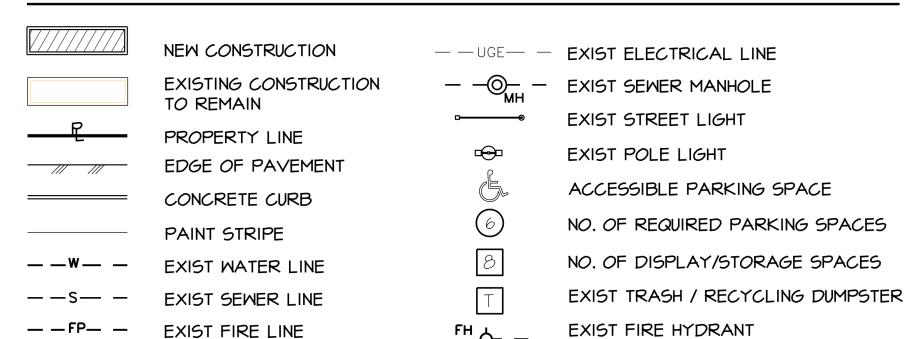
OCY OCY EXPORT:

NOTE: EARTHWORK QUANTITIES ARE ESTIMATED FOR PERMITTING PURPOSES ONLY AND ARE NOT USED FOR PAYMENT QUANTITIES, CONTRACTOR SHALL VERIFY QUANTITES.

THE LIMIT OF DISTURBANCE IS: THE PROJECT BOUNDARY

THE AREA OF DISTURBANCE IS: 0.06 AC





EXIST GAS LINE

DEVELOPMENT DATA

SIDEWALK (EXISTING & PROPOSED)

LOT COVERAGE = 6,843,1 SF/10,049 SF = 68,1% (<70%)

PARKING AREA

TOTAL AREA

EXIST ELEC JUNCTION BOX

BICYCLE PARKING

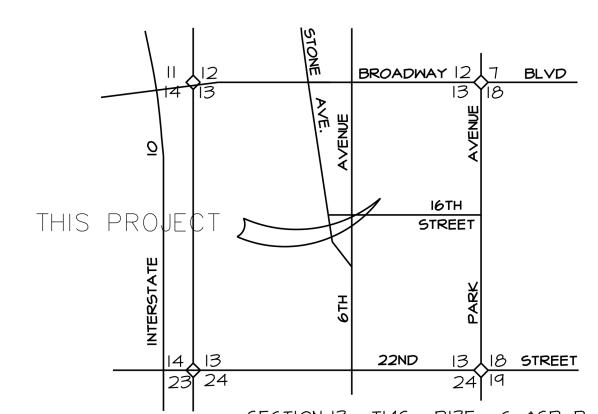
| OWNER | ALEXANDER LEE | PARKING | | |
|----------------------------|--|---------------------------|-------------|----------|
| | | RESIDENCE - 4 @ 2BR UNITS | @ 2 SP/UNIT | 8 |
| ADDRESS | 419 S. 5TH AVENUE | | | |
| | TUCSON, AZ 85701 | PROVIDED PARKING SPACES | 5 | |
| | | ONSITE | | 3 |
| ZONING | HR-3 RESIDENTIAL | TOTAL PROVIDED SPACES | | 3 |
| USE | MULTI-FAMILY RESIDENTIAL (UDC USE-SPECIFIC STANDARD 4.9.7.B.6) | | | |
| SITE AREA | 10,049 SF OR 0.23 ACRES | | REQUIRED | PROVIDED |
| | | ACCESSIBLE | 1 | 1 |
| TYPE OF | EXISTING STRUCTURE | | | |
| CONSTRUCTION | SITE PARKING IMPROVEMENTS | | | |
| | | BICYCLE PARKING | | |
| LOT COVERAGE CALCULATION | | SHORT-TERM | 2 | 6 |
| | | LONG-TERM | 2 | 6 |
| AREA OF IMPROVEMENTS HOUSE | 3,998.2 SF | | | |

1,304.1 SF

1,411,9 SF

128.9 SF

6,843.I SF



SECTION 13 - T145 - R13E - G. & SR. B. & M. _OCATION PLAN 3" = 1 MILE

OWNER ALEXANDER LEE 419 S. 5TH AVENUE TUCSON, AZ 85701 (520) 603-2252 ALEX.D.LEE63@GMAIL.COM

DEVELOPER ALEXANDER LEE 419 S. 5TH AVENUE TUCSON, AZ 85701 (520) 603-2252 ALEX.D.LEE63@GMAIL.COM

ARCHITECT GGV DESIGNS, LLC 2536 E. 6TH ATREET TUCSON, ARIZONA 85716 (520) 204-2162 GABRIEL VARGAS, AIA (ARCHITECT) GABRIEL@GGVDESIGNS.COM

CIVIL ENGINEER CIVIL DESIGN GROUP, PLC 61117 E SPARKLE SPUR PLACE TUCSON, ARIZONA 85739 520-230-0086 KEVIN PERKO, PE (CIVIL ENGINEER) PERKO.KEVIN@GMAIL.COM

INDEX OF DRAWINGS

| HEET | NO. | SHEET | TITLE | |
|------|-----|-------|-------|--|
| | | | | |

COVER SHEET & SHEET INDEX SITE PLAN GRADING & PAVING PLAN HORIZONTAL CONTROL DEMOLITION PLAN LANDSCAPE PLAN, NOTES + DETAILS

LEGAL DESCRIPTION

LOT 14 OF BLOCK 108 AS RECORDED IN BOOK 3, PAGE 70, MAPS & PLATS, IN THE OFFICE OF THE COUNTY RECORDER, PIMA COUNTY, ARIZONA.

BASIS OF BEARING

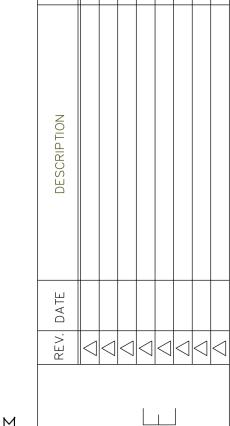
TRUE NORTH FROM GPS OBSERVATIONS, BEARING OF N 00°22'30" W FOR THE CENTERLINE OF 5TH AVENUE.

BASIS OF ELEVATION

NAV88 ELEVATION 2407.59 FEET ON THE X ON THE TOP OF CURB AT THE EAST CURB RETURN AT THE NORTHWEST CORNER OF 4TH AVENUE AND 15TH STREET, PER COT FB 1989X, PAGE 4



HDZ19-72 419 S. 5TH AVENUE TUCSON, ARIZONA 85701



 \bigcirc





DESIGN BY: DRAWN BY: CHK'D BY: DATE: FEB 2020 AS NOTED

DP20-0046

1. PROTECT EXISTING PAVEMENT, SIDEWALKS, CURBS & OTHER EXISTING IMPROVEMENTS WHICH ARE SHOWN TO REMAIN.

2. CONSTRUCTION FEATURES AND LOCATIONS OF UTILITIES ARE FROM AVAILABLE RECORDS. FIELD VERIFY/BLUESTAKE PRIOR TO COMMENCING OPERATIONS.

LEGEND

LIMITS OF WORK



- SAWCUT AT 1' MINIMUM AND REMOVE EXIST CURB AND PAVEMENT AS NECESSARY. TRIM, TACK, AND JOIN NEW PAVEMENT TO EXISTING PAVEMENT
- 2 EXISTING CHAIN LINK FENCE TO REMAIN
- $\langle 3 \rangle$ EXISTING POTABLE WATER METER TO REMAIN
- $\overline{\langle 4 \rangle}$ NEW 4" WHITE PAINT STRIPE, 0.06" THICK TRAFFIC RATED (TYP)
- $\langle 5 \rangle$ NEW 4" THICK x 5' WIDE SIDEWALK PER PAG DTL 105 & 200 \bigcirc
- 6 NEW CONCRETE SIDEWALK RAMP PER PAG DTL 207
- 7 NEW ASPHALT PAVING 2" AC ON 4" ABC (TYP) 6
- ALL ACCESSIBLE PATHWAYS SHALL COMPLY WITH ICC A117.1 (2% MAXIMUM CROSS SLOPE AND 5% MAXIMUM RUNNING SLOPE).

- PARKING (6 SPACES)

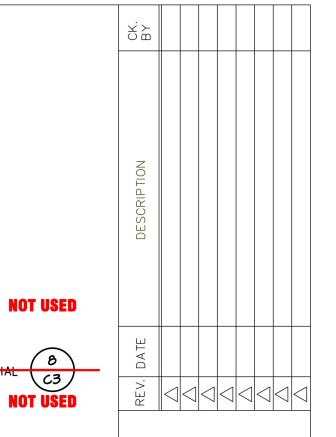
 A SPACES

 A SPAC
- NEW ACCESSIBLE PARKING SIGN 7
- NEW SHORT TERM BICYCLE PARKING (6 SPACES) 6

 C3

 NEW MASONRY WALL TO REMAIN

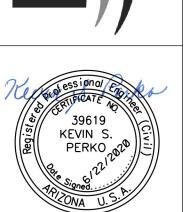
 NEW MASONRY WALL PER AS1.0
- (13) NEW SLIDING GATE AS REQUIRED AND APPROVED BY ARMORY PARK
- (14) NEW TYPE 2 VERTICAL CURB PER PAG DTL 209 & 212
- 15 NEW CMU SCREEN WALL WITH CEMENT STUCCO FINISH PER PAG STD DTL 109
- (16) NEW WOOD RAMP (SEE ARCHITECTURAL PLANS)
- 17 NEW PERFORATED SCREEN WALL PER ARMORY PARK APPROVED SCREENING MA



LEE RESIDENCE 419 S. 5TH AVENUE

SITE PLAN
55.5' LOT 6 BLK 108

GIIT E. Sparkle Spur Place Tucson, AZ 85739 Phone: (520) 230-0086



DESIGN BY: KSP

DRAWN BY: KSP

CHK'D BY: KSP

DATE: FEB 2020

SCALE: AS NOTED

JOB NO 1910.00

DRAWING NO

HDZI9-72

SITE ADDRESS

419 S. 5TH AVENUE

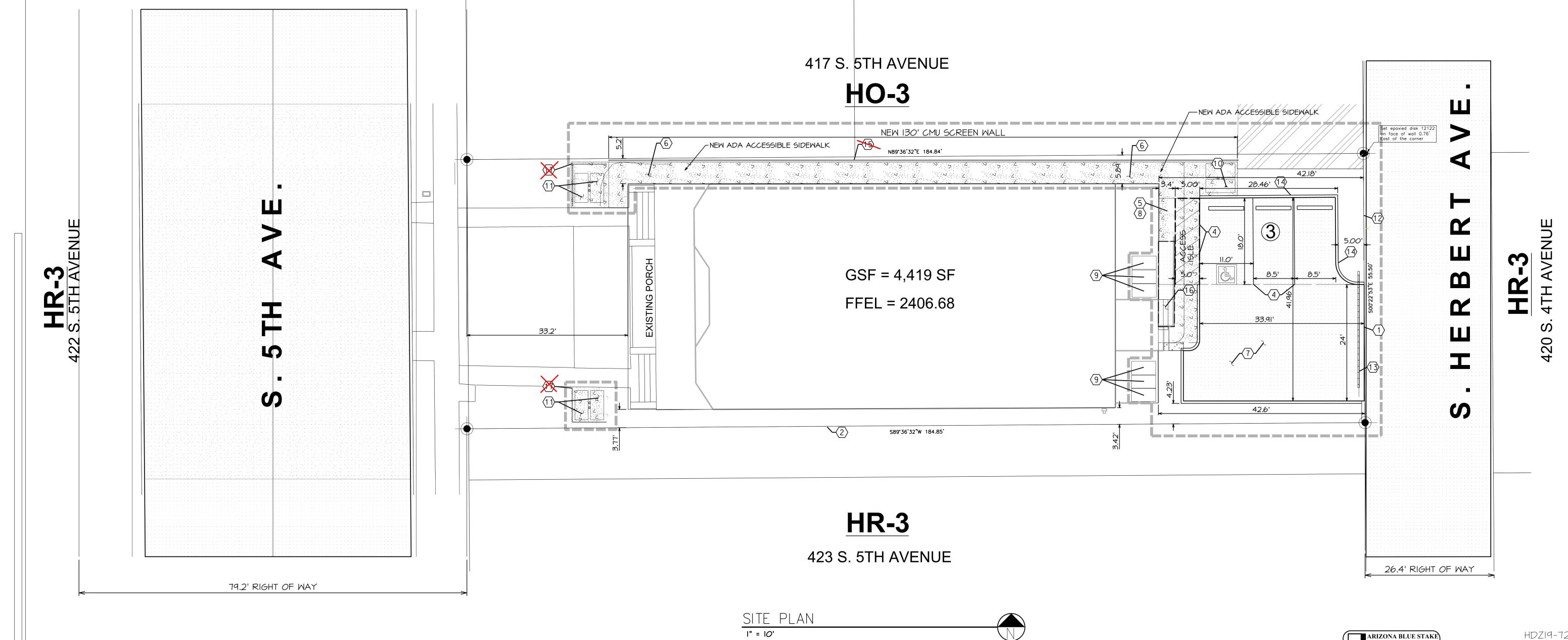
TUCSON, ARIZONA 85701

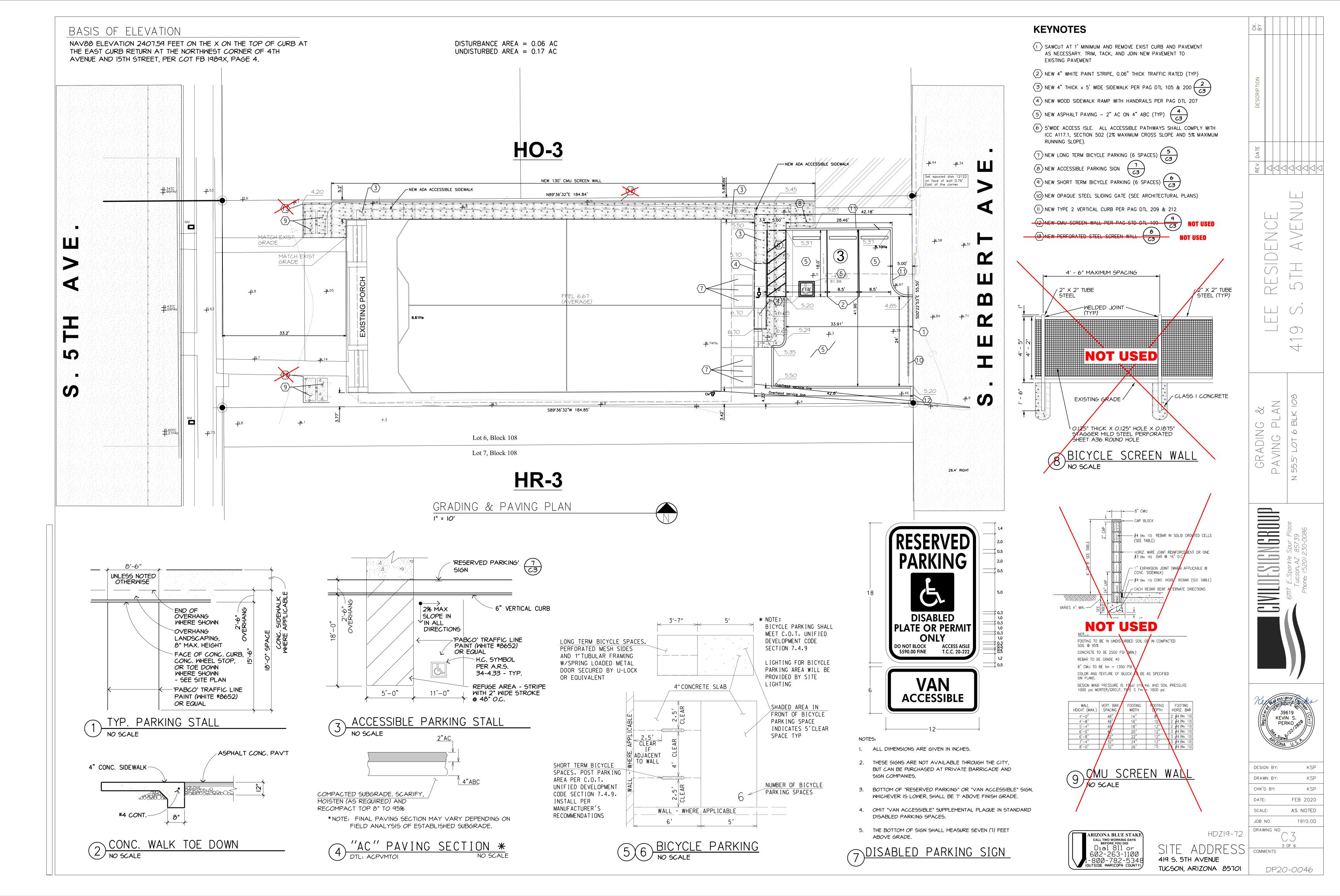
DRAWING NO

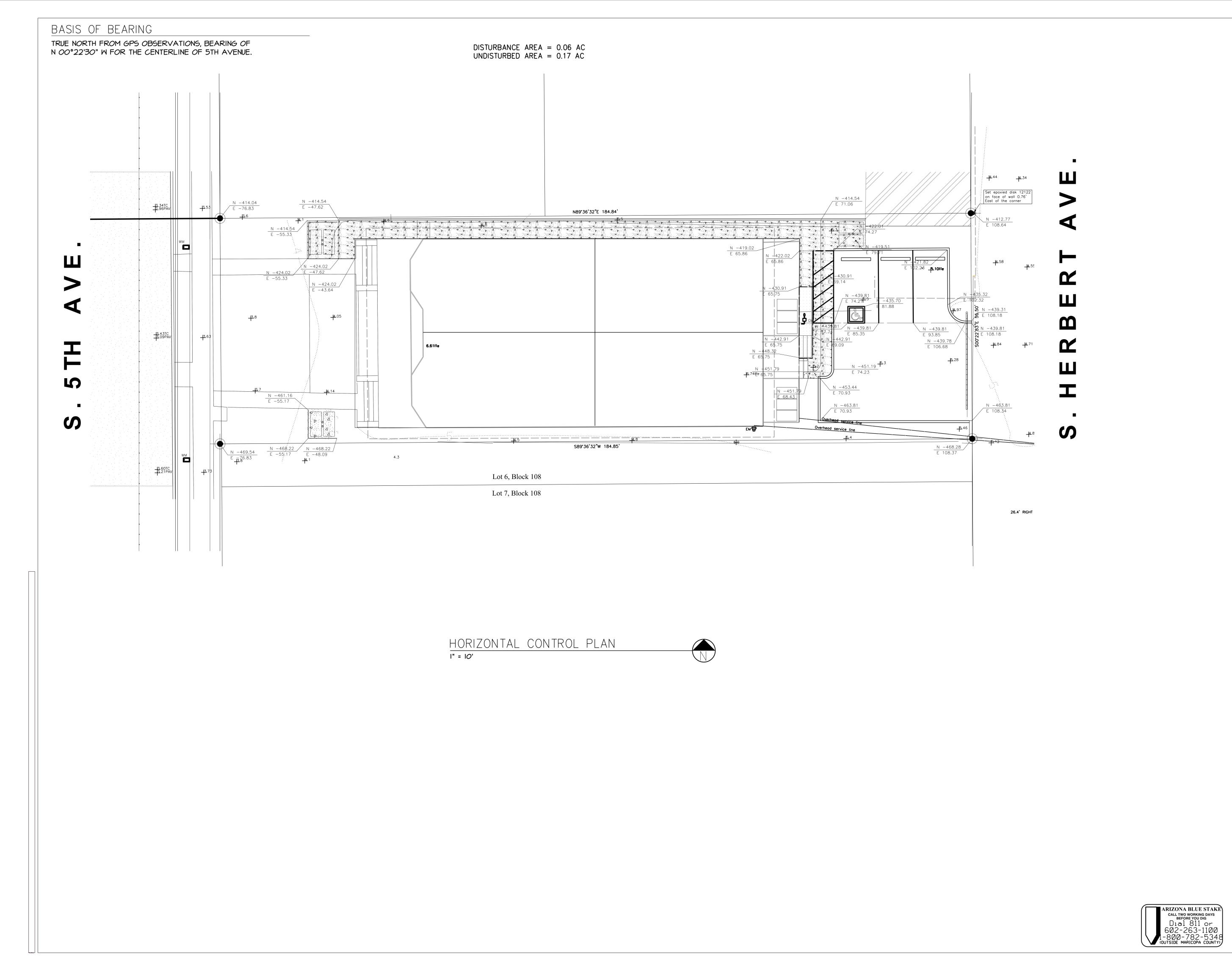
2 OF 6

COMMENTS

DP20-0046

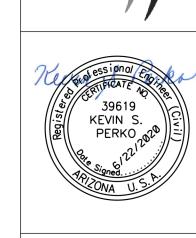








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| | DESIGN BY: | KSP |
|----|------------|----------|
| | DRAWN BY: | KSP |
| | CHK'D BY: | KSP |
| | DATE: | FEB 2020 |
| | SCALE: | AS NOTED |
| | JOB NO | 1910.00 |
| 72 | DRAWING NO | Λ |

HDZ19-72
SITE ADDRESS
419 5. 5TH AVENUE
TUCSON, ARIZONA 85701

6. EXISTING PAVEMENT TO BE SAWCUT AND REMOVED AS SHOWN 7. EXISTING CANOPY ROOFS & DECK TO BE REMOVED

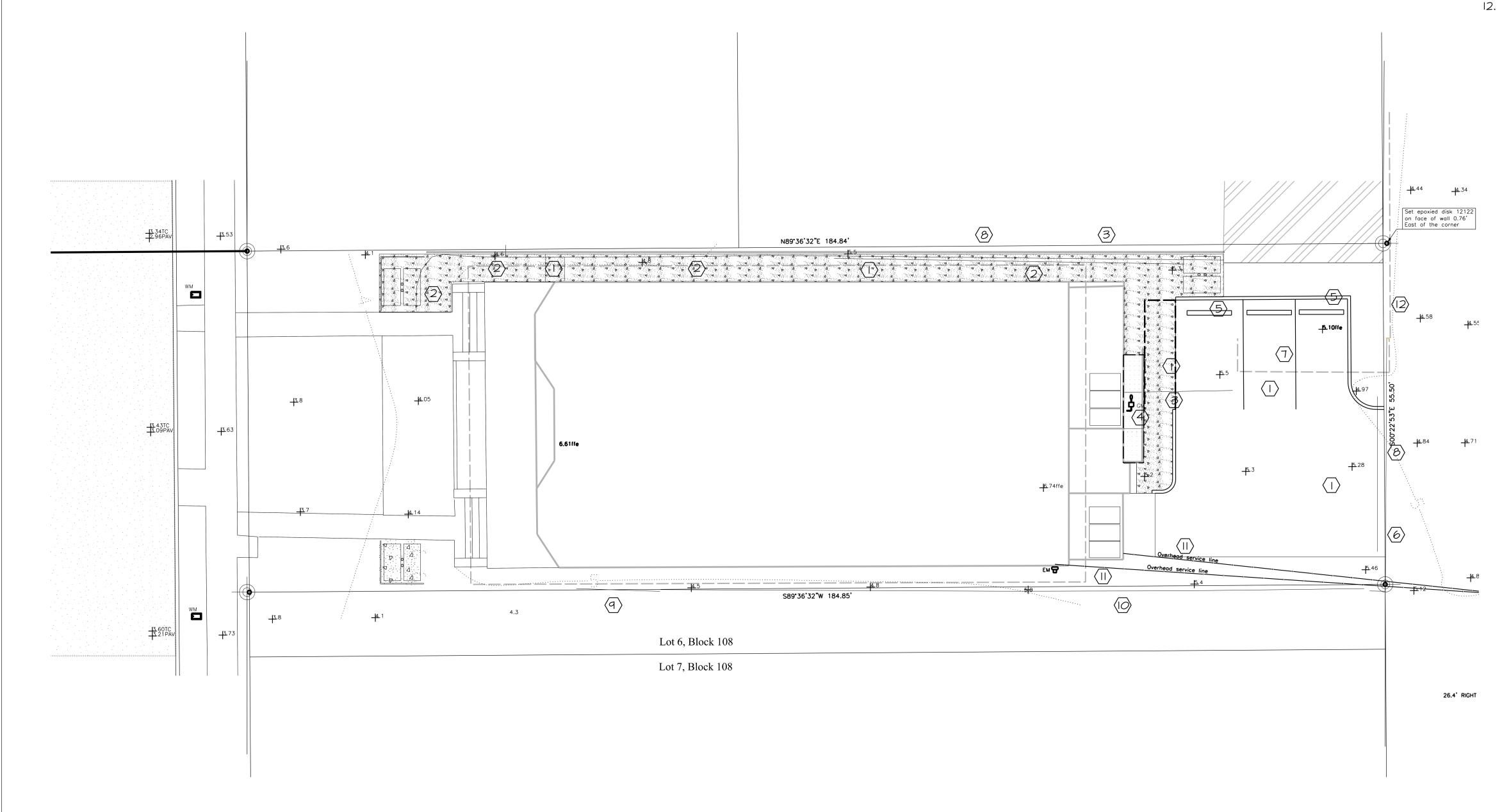
8. EXISTING METAL AND CHAIN LINK FENCE TO BE REMOVED REMAIN

9. EXISTING CHAIN LINK FENCE TO REMAIN

10. EXISTING WOOD FENCE TO REMAIN

II. EXISTING OVERHEAD UTILITIES TO REMAIN BE RELOCATED UNDER GROUND

12. EXISTING WOOD STUD WALL OUTSIDE OF LIMITS OF STRUCTURE TO REMAIN



DEMOLITION PLAN I" = 10'







SCALE: AS NOTED TUCSON, ARIZONA 85701

DP20-0046

FEB 2020

DESIGN BY:

DRAWN BY:

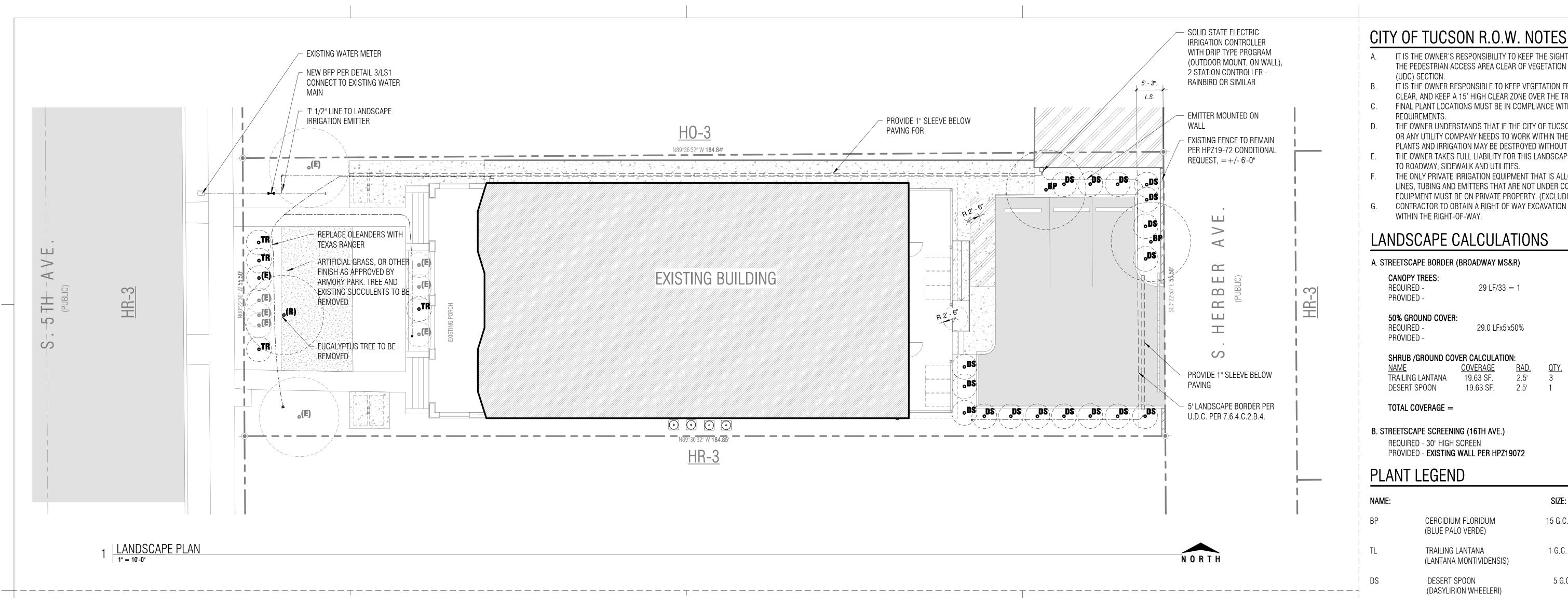
CHK'D BY:

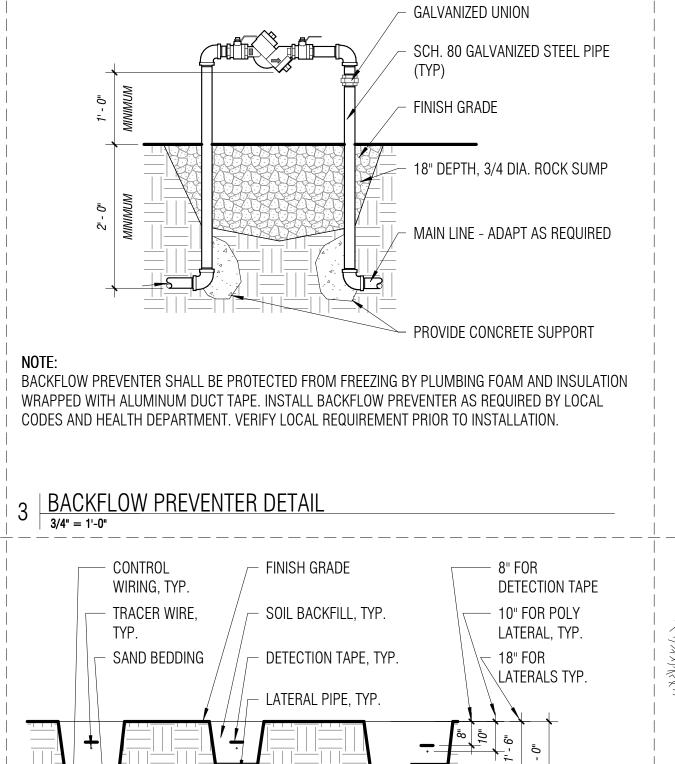
DATE:

 \overline{Z} \bigcirc

DEMOLITION PLAN

CIMILIFSIGNGROUP





UNDISTURBED OR

SUBGRADE

ALL IRRIGATION PIPING AND REMOTE CONTROL WIRING TO BE INSTALLED PER

MANUFACTURER'S RECOMMENDATIONS AND PER ALL APPLICABLE CODES.

90% OR COMPACTED

ALL REMOTE CONTROL WIRING CONNECTIONS TO VALVES AND SPLICES SHALL BE MADE

WITH WATERPROOF WIRE CONNECTORS INSTALLED PER MANUFACTURER'S INTERVALS.

MAIN LINE

PIPE, TYP.

IRRIGATION TRENCHING

∠ 24" FOR MAINLINE

& CONTROL

WIRING

IRRIGATION NOTES

"X"

- IRRIGATION PLAN IS SCHEMATIC ONLY. SLIGHT ADJUSTMENTS MAY BE NECESSARY TO ACCOMMODATE EXISTING CONDITIONS. ALL PRESSURE MAINLINES AND CONTROL VALVES SHALL BE LOCATED ON THE PROJECT PROPERTY. DRIP LINES (POLY) MAY BE EXTENDED OUT INTO THE ROAD RIGHT OF WAY TO IRRIGATE PROPOSED OR EXISTING PLANTING LOCATE AND INSTALL BACKFLOW PREVENTER PER CITY OF TUCSON STANDARDS. EXISTING BACKFLOW PREVENTER MAY BE SALVAGED.
- MAXIMUM DISTRIBUTION TUBING DISTANCE SHALL NOT EXCEED 12'-0" FROM EMITTER TO
- VERIFY UNDERGROUND UTILITY LOCATIONS PRIOR TO ANY IRRIGATION TRENCHING OR OTHER LANDSCAPE CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND UTILITIES CAUSED BY THIS CONSTRUCTION.

1/2" RUBBER HOSE WITH #10 WIRE RUBBER COATED

2" ROUND TREATED LODGE-POLE PINE STAKES. BURY

TRIM END WIRES AND TAPE

TREATMENT

UNDISTURBED SOIL

BORE 4" DIA. X 36" DEEP HOLE IN UNDISTURBED SOIL AND FILL WITH 3/8" PEA GRAVEL

OR CRUSHED ROCK. IN HARDPAN (CALICHE SOILS) DEPTH OF HOLE SHALL EXTEND

THROUGH HARDPAN AND WILL VARY WITH DEPTH OF HARDPAN

15 GALLON TREE BOX-THREE STAKING

3' BELOW GRADE (SIZE STAKE TO TREE)

COMPACTED ABC (REFER TO CIVIL)

CURB, PAVEMENT WITH THICKENED EDGE AND

FINISH GRADE REFER TO PLAN FOR MATERIAL

PANELS CP36-2 OR EQUIVALENT PRODUCT

CENTURY ROOT BARRIER - CP SERIES ROOT BARRIER

BACKFILL PLANT PIT WITH SOIL MIX NOTED IN SPECS

VERIFY BACKFLOW PREVENTER + CONTROLLER LOCATION W/ OWNER PRIOR TO CONSTRUCTION. BACKFLOW PREVENTER WILL REQUIRE SCREENING SIMILAR TO BIKE

LANDSCAPE NOTES

- ALL REQUIRED LANDSCAPING, IRRIGATION SYSTEMS, WALLS, SCREENING DEVICES, CURBING AND DETENTION BASIN LANDSCAPE IMPROVEMENTS ON THE SITE OR WITHIN THE ABUTTING R.O.W. SHALL BE MAINTAINED AS SHOWN ON THE APPROVED PLANS. THE PROPERTY OWNER IS RESPONSIBLE FOR PROPER MAINTENANCE TO ACHIEVE PERMANENT SAFE, AND SUCCESSFUL LANDSCAPING AS REQUIRED BY THIS DIVISION. FAILURE TO MAINTAIN THE IMPROVEMENTS OR LANDSCAPING REQUIRED BY THIS DIVISION CONSTITUTES A VIOLATION OF THE U.D.C.
- AN APPROVED AUTOMATIC DRIP IRRIGATION SYSTEM SHALL BE INSTALLED. IRRIGATION CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR TO CONNECT THE SYSTEM TO SITE WATER SERVICE. SYSTEM TO BE EQUIPPED WITH BACK FLOW PREVENTER, FILTER, PRESSURE REGULATOR, AND CONTROL VALVE. PROVIDE "AS-BUILT" DRAWINGS TO THE OWNER OF ALL UNDERGROUND LINES FOR FUTURE REFERENCE.
- IRRIGATION SYSTEM PIPING UNDER PAVEMENT TO BE INSTALLED IN SCHEDULE 40 SLEEVES. EXTEND ALL SLEEVES MIN. 12" BEYOND PAVING AND CURBS
- VEGETATION WITHIN THE SIGHT VISIBILITY TRIANGLE SHALL NOT INTERFERE WITH THE VISIBILITY PLANE DESCRIBED BY TWO HORIZONTAL LINES LOCATED 30" AND 72" ABOVE FINISHED GRADE OR ROADWAY SURFACE.
- DEPRESS 6" ALL LANDSCAPE AREAS TO MAXIMIZE STORM WATER HARVESTING. ALL DECOMPOSED GRANITE GROUND COVER SHALL BE WASHED/SCREENED.
- PROVIDE 3/8" SCREENED DECOMPOSED GRANITE IN ALL PLANTING AREAS AND NON-PAVED

REVISION DESCRIPTION CITY OF **DEVELOPMENT PACKAGE** TUCSON PDSD APPROVAL □ SCZ □ FRZ | Site/Dev Plan **Tentative Plat** Grading ່ 39219 ້^ຕ SWPP WASH DIANA K. FLYNN **□** Other **DVPKG MGR** Signed 04/15/2020 Zoning Date Engineering Date EXPIRES 6/30/2021 H/C Site Date Fire _ Date Landscape PL/ME

1-800-782-5348

Revision #_

GGV Designs, PLLC Date 520.204.2162 | 2536 E. 6th Street; Tucson, Az 85716 **□** per letter in SIRE

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Drawn: Author Date: 04/15/2020 Scale: As indicated Job: 2019.53

SHEET:

7 of **21** Sheets

TITLE: LANDSCAPE PLAN, **NOTES + DETAILS** (FOR REFERENCE ONLY)

MAPS + PLATS, IN THE OFFICE OF | TUCSON, AZ 85701 THE COUNTY RECORDER, PIMA 520-603-2252 COUNTY, ARIZONA alex.d.lee63@gmail.com SITE ADDRESS 419 S. 5th Ave. | Tucson, AZ 85701

ALEXANDER LEE

OWNER/DEVELOPER

IT IS THE OWNER'S RESPONSIBILITY TO KEEP THE SIGHT VISIBILITY TRIANGLES (SVT), AND

THE PEDESTRIAN ACCESS AREA CLEAR OF VEGETATION AT ALL TIMES, PER LAND USE CODE

IT IS THE OWNER RESPONSIBLE TO KEEP VEGETATION FROM GROWING PAST THE CURB LINE

THE OWNER UNDERSTANDS THAT IF THE CITY OF TUCSON TRANSPORTATION DEPARTMENT

OR ANY UTILITY COMPANY NEEDS TO WORK WITHIN THE ROW IN THE LANDSCAPED AREA.

THE OWNER TAKES FULL LIABILITY FOR THIS LANDSCAPE AND IRRIGATION. AND ANY DAMAGE

THE ONLY PRIVATE IRRIGATION EQUIPMENT THAT IS ALLOWED WITHIN THE ROW ARE LATERAL LINES, TUBING AND EMITTERS THAT ARE NOT UNDER CONSTANT PRESSURE. ALL OTHER

1 TREE

1 TREE

73 SF

79 SF

59 SF

20 SF

79 SF

TTL QTY:

2' DEPTH

SCREENED MIN.

<u>SUBTOTAL</u>

CONTRACTOR TO OBTAIN A RIGHT OF WAY EXCAVATION PERMIT PRIOR TO CONSTRUCTION

PLANTS AND IRRIGATION MAY BE DESTROYED WITHOUT REPLACEMENT OR REPAIR.

EQUIPMENT MUST BE ON PRIVATE PROPERTY. (EXCLUDING WATER METER)

 $29 \, \text{LF} / 33 = 1$

29.0 LFx5'x50%

<u>RAD.</u>

2.5'

2.5'

SIZE:

15 G.C.

1 G.C.

5 G.C

3/8"

COVERAGE

19.63 SF.

19.63 SF.

CLEAR, AND KEEP A 15' HIGH CLEAR ZONE OVER THE TRAVEL LANE.

REQUIREMENTS.

TO ROADWAY, SIDEWALK AND UTILITIES.

WITHIN THE RIGHT-OF-WAY.

CANOPY TREES:

50% GROUND COVER:

TRAILING LANTANA

TOTAL COVERAGE =

REQUIRED - 30" HIGH SCREEN

DESERT SPOON

SHRUB /GROUND COVER CALCULATION:

PROVIDED - EXISTING WALL PER HPZ19072

CERCIDIUM FLORIDUM

(BLUE PALO VERDE)

TRAILING LANTANA

DESERT SPOON

(LANTANA MONTIVIDENSIS)

(DASYLIRION WHEELERI)

DECOMPOSED GRANITE

-ELECTRIC REMOTE CONTROL VALVES (PLASTIC), RAIN BIRD 100-PEB-1"

PRESSURE REGULATOR - PRESETS TO 30 PSI RAIN BIRD PSI- L30X

WYE FILTER WITH 200 MESH SCREEN (PLASTIC) - agPRODUCTS 4E-3/4"

- POLY DRIP TUBING WITH MANUAL FLUSH END CAP - 3/4" POLYETHYLENE

- MULTI-OUTLET EMITTERS (TREES)- PRESSURE - COMPENSATING, 6 OUTLETS AT 1GPH EACH.

- SINGLE OUTLET EMMITTERS (SHRUBS, ACCENTS, GROUNDCOVER)- PRESSURE COMPENSATING, 6

(OWNER SELECTED)

- CLASS 200 PVC LATERALS SOLVENT WELD JOINTS-1"

OUTLETS AT 1GPH EACH. RAINBIRD XB-10

ITEMS NOT SHOW

REQUIRED -

PROVIDED -

REQUIRED -

PROVIDED -

FINAL PLANT LOCATIONS MUST BE IN COMPLIANCE WITH ALL UTILITY SETBACK

DEVELOPMENT PACKAGE FOR:

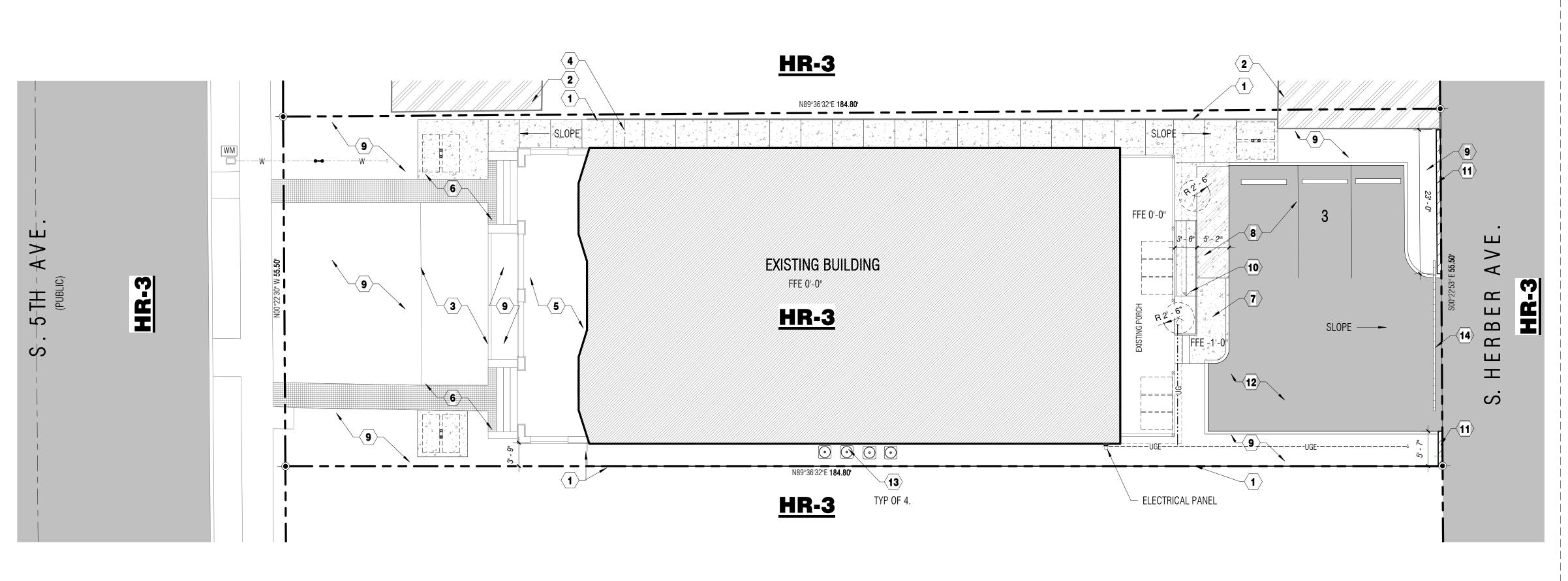
RECORDED IN BOOK 3, PAGE 70, 419 s. 5TH AVE

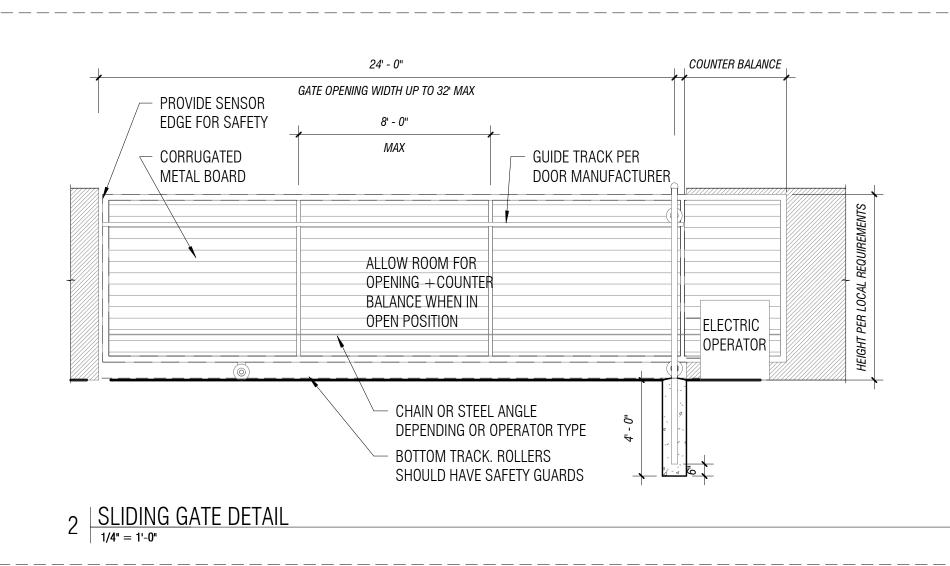
419 PROPERTY

LEGAL DESCRIPTION

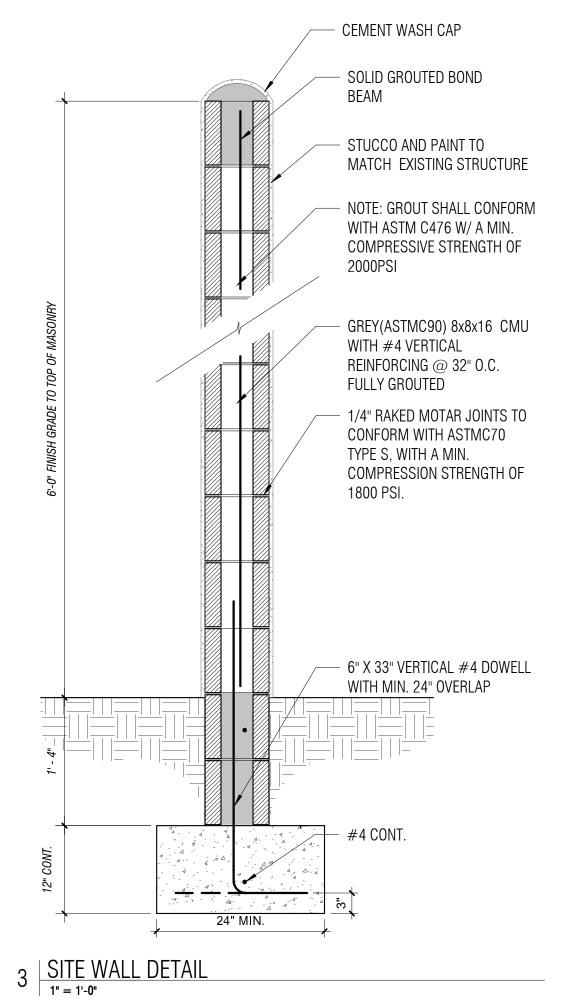
LOT 14 OF BLOCK 108 AS

20-004





| SITE PLAN | 1" = 10'-0"



GENERAL SITE PLAN NOTES

- A. SLOPE ALL FLATWORK 1:48 (FIELD VERIFY EXISTING ADJACENT SLOPES) AWAY FROM BUILDING.
- B. FLAT WORK SHALL BE 4" THICK, CLASS B 2500 PSI, ON 4" AGGREGATE BASE COURSE COMPACTED 100%, OVER COMPACTED EARTH U.N.O. CONTROL JOINTS
- PROVIDE EXPANSION JOINTS @ 20'-0" O.C. MAX.
- D. FILL EXPANSION JOINTS WITH FIBROUS EXPANSION JOINT FILLER 1/2" BELLOW THE
- TOP OF FLATWORK.
 PROVIDE CONTROL JOINTS AT 5'-0" O.C.
- F. ALL RUNNING SLOPES TO BE 5% MAX. AND 2%MAX ON CROSS SLOPES IN MARKED CROSSINGS, AND 2% ON ALL DIRECTIONS IN ACCESSIBLE ROUTE SLOPES, PER ICC A117.1 STANDARDS.
- UTILITIES INDICATED ON PLAN ARE APPROXIMATE AND SHALL BE FIELD VERIFIED WITH UTILITY COMPANIES PRIOR TO ANY EXCAVATION. EXCAVATORS SHALL CONTACT "ARIZONA BLUE STAKE" @ 1.800.782.5348 WITH A MINIMUM OF TWO FULLS WORKING DAYS PRIOR TO EXCAVATION.

KEYNOTES

- EXISTING FENCE TO REMAIN
- EXISTING STRUCTURE TO REMAIN
- EXISTING LANDSCAPE PAVERS AND PLANTERS CURBS TO REMAIN. REPAIR
- BROKEN GROUT LINES AS NEEDED. REMOVE EXISTING GATE
- EXISTING PORCH DECK / PORCH PAVING TO REMAIN
- EXISTING BRICK PAVERS TO BE REMOVED AND RESET TO ARCHIVE A LEVELED, ACCESSIBLE SURFACE. RESET PATTERN SHALL MATCH EXISTING
- 4" CONCRETE WALK OVER 4" ABC AND COMPACTED SOIL, MEDIUM BROOM FINISH
- ACCESSIBLE PARKING REFER TO CIVIL DRAWINGS
- LANDSCAPE AREA REFER TO CIVIL DRAWINGS
- O. PRAIRIE VIEW INDUSTRIES MODULAR RAMP OR EQUAL AS SELECTED BY LANDLORD. RAMP SHALL NOT BE AFFIXED TO STRUCTURE.
- MASONRY SITE WALL PER DETAIL 3/AS1.0
- 12. ASPHALT PAVING PER CIVIL DRAWINGS
- 13. AC COMPRESSOR ON CONCRETE PAD
- 14. SLIDING GATE PER DETAIL 2/AS1.0

SITE PLAN LEGEND

NORTH

| | WATER METER | WM |
|-------------------|---------------------------------|---------------------------|
| | PROPERTY LINE | |
| | PROPERTY PINS | -•- |
| | ZONING | HR- |
| - | WATER LINE | w |
| | ELECTRIC LINE (UNDER GROUND) | UGE |
| | BICYCLE PARKING | 0 Lul |



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419 Apartments

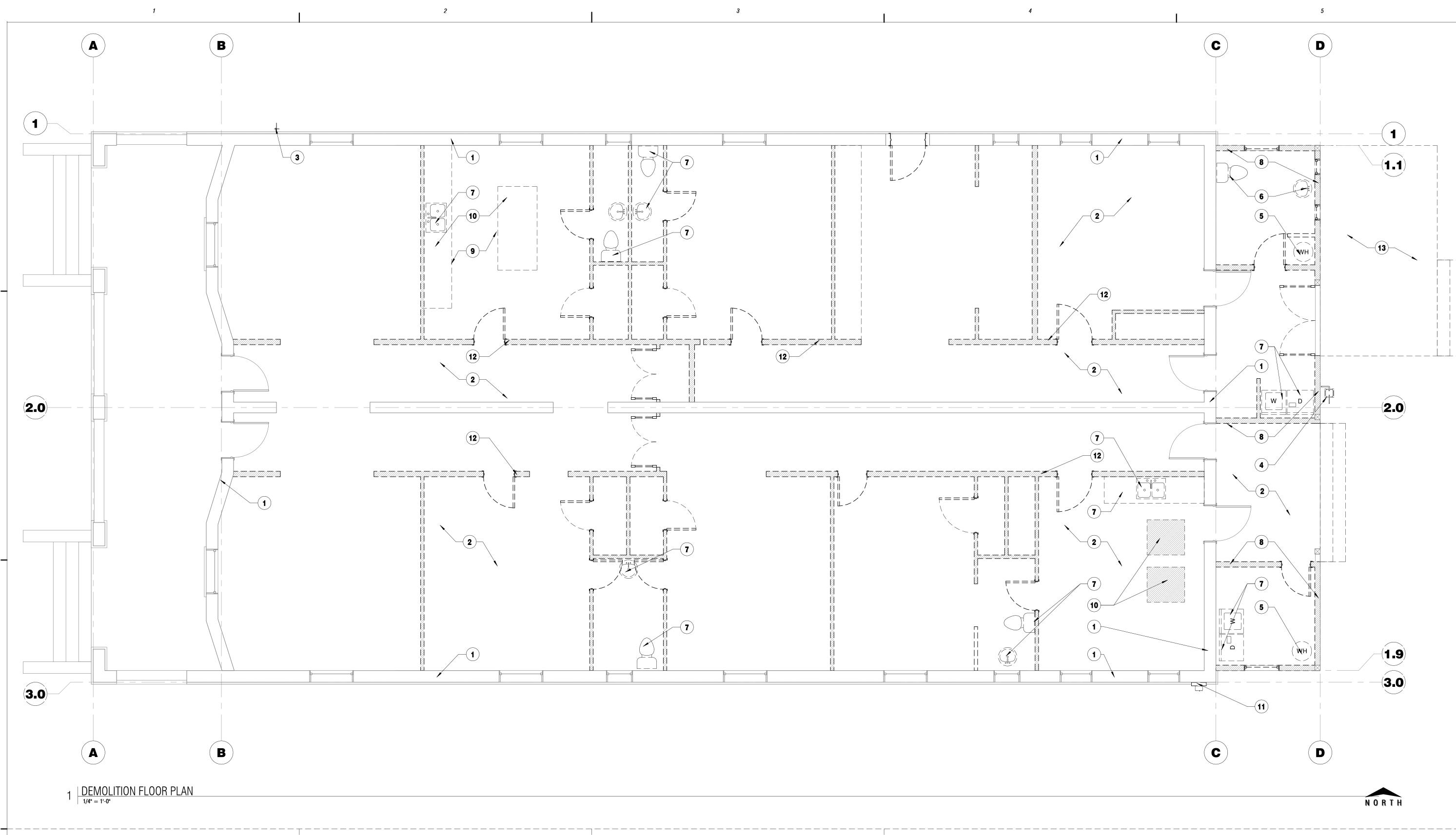
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Drawn: GGV, FGC
Date: 04/15/2020
Scale: As indicated

TITLE: ARCHITECTURAL

SITE PLAN

Sheet: AS1.0 % Stages



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Apartment

Revision Schedule

Date Description

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Drawn: **GGV, FGC** 04/15/2020 Scale: 1/4" = 1'-0"

2019.53 Job:

TITLE: DEMOLITION PLAN

GENERAL DEMOLITION NOTES

- CONTRACTOR SHALL VISIT THE SITE AND INFORM ARCHITECT OF ANY CONDITIONS THAT MAY AFFECT THE EXECUTION OF THE WORK PRIOR TO COMMENCING THE PROJECT.
- CONTRACTOR SHALL VERIFY THAT ALL PERTINENT AND REQUIRED DATA IS CONTAINED WITHIN THE DRAWINGS AND SHALL REPORT ALL DISCREPANCIES OR OMISSIONS PRIOR TO COMMENCING THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SITE IN A CLEAN AND SAFE CONDITION. DEBRIS GENERATED BY THE DEMOLITION SHALL BE REMOVED DAILY.
- CONTRACTOR SHALL MEET WITH THE OWNER ON SITE AND LIST ALL ITEMS THAT ARE TO BE SALVAGED AS DIRECTED BY THE HOMEOWNER.
- ITS IS RECOMMENDED FOR EXCAVATORS TO CONTACT "ARIZONA BLUE STAKE" AT 811 WITH A MINIMUM OF TWO FULL WORKING DAYS PRIOR TO EXCAVATION/DEMOLITION.
- IT IS THE CONTRACTORS RESPONSIBILITY TO SHORE ALL EXISTING STRUCTURE TO REMAIN PRIOR TO DEMOLITION AND DURING CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE AND SECURE ALL UTILITY SHUT DOWNS WITH THE HOMEOWNER PRIOR TO DEMOLISHING UTILITIES WITHIN THE DEMOLISHED PREMISES.
- H. NO WORK TO EXTERIOR UNLESS NOTED OTHERWISE.

DEMOLITION SCOPE

DISTRIBUTION.

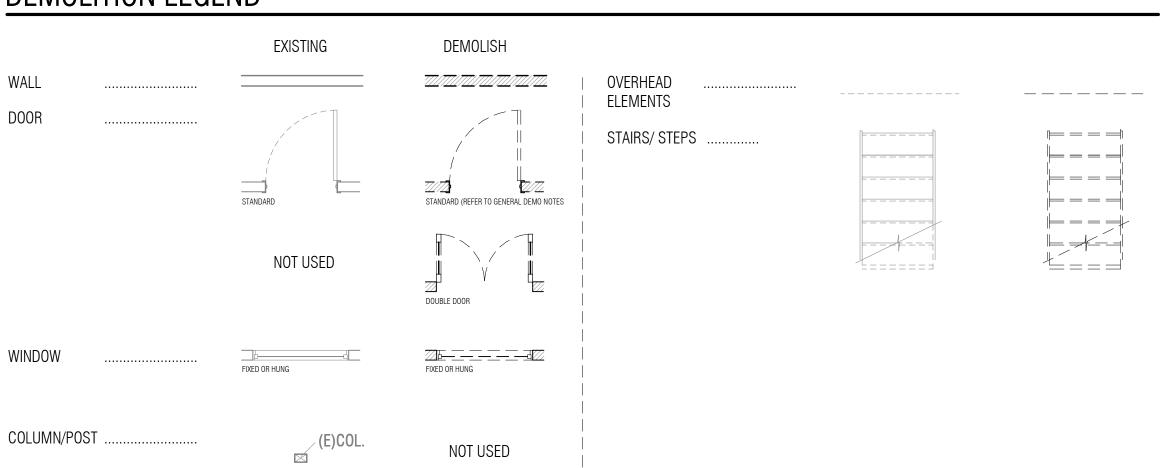
FULL DEMOLITION:

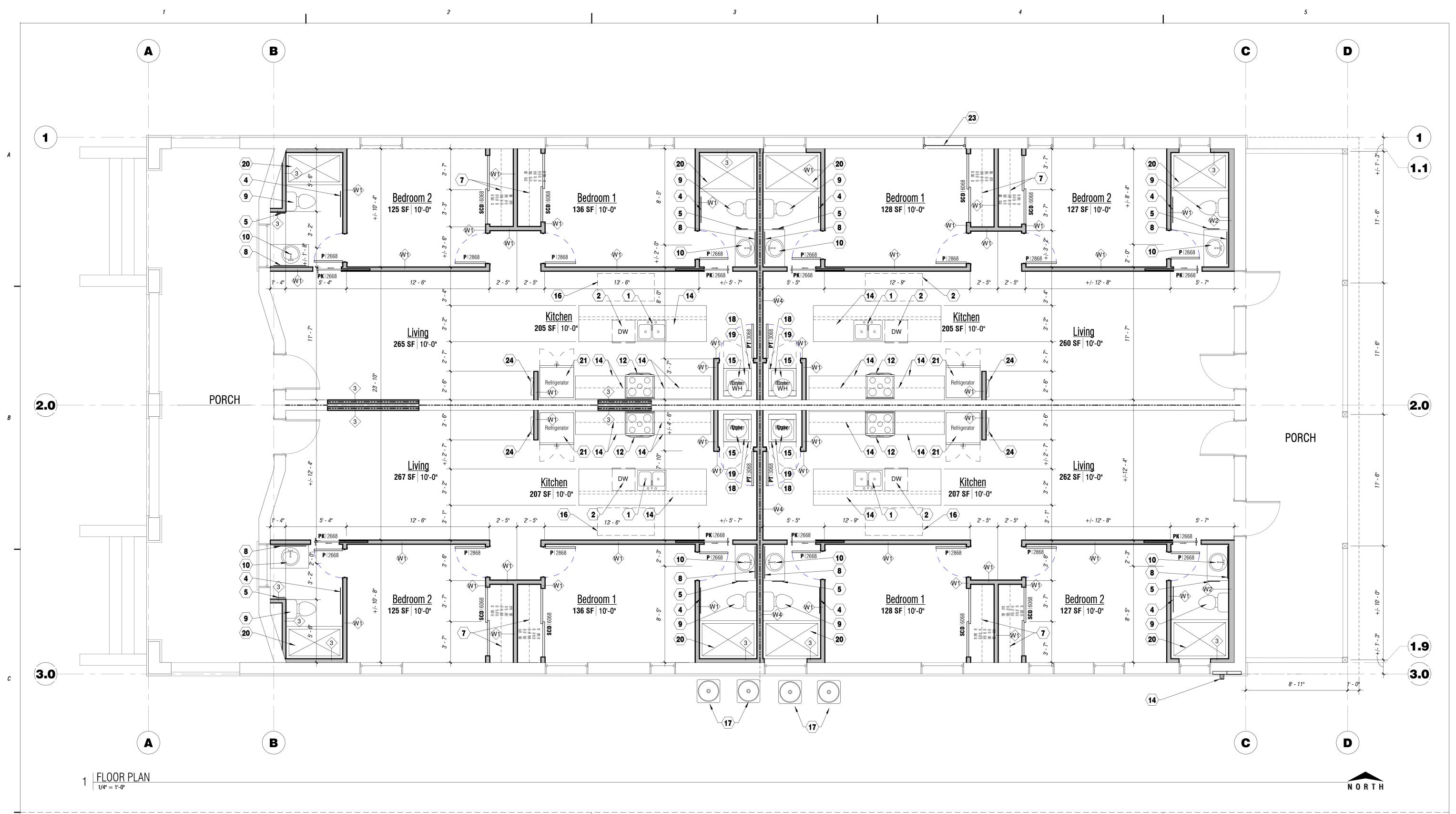
- **BUILDING DEMOLITION** DEMOLISH ALL INTERIOR FINISHES. NO EXTERIOR DOORS OR WINDOWS SHALL BE DEMOLISHED UNLESS NOTED OTHERWISE. ALL INTERIOR DOORS NOTED TO BE DEMOLISHED SHALL BE CARFULLY REMOVED, SALVAGED AND
- STORED PER OWNERS DIRECTION FOR REUSE. MECHANICAL DEMOLITION - DEMOLISH ALL MECHANICAL EQUIPMENT IN ITS ENTIRETY THAT ARE FOUND WITHIN THE LIMITS OF DEMOLITION. THESE ELEMENTS INCLUDE BUT ARE NOT LIMITED TO: ROOF TOP UNITS, EXHAUST HOODS, MECHANICAL AIR DISTRIBUTION SYSTEMS, EXHAUST FANS, CONDENSATION
- LINES, AND THERMOSTATS. PLUMBING DEMOLITION - DEMOLISH ALL PLUMBING FIXTURES THEIR ENTIRETY THAT ARE FOUND WITHIN THE LIMITS OF DEMOLITION. THESE ELEMENTS INCLUDE BUT ARE NOT LIMITED TO: TOILETS, SINKS, LAVATORIES, SHOWERS, FAUCETS, AND BATHTUBS. REMOVE ALL UNDRGROUND AND ABOVE GRADE PLUMBING
- **ELECTRICAL DEMOLITION** DEMOLISH ALL ELECTRICAL ELEMENTS WITHIN THE LIMITS OF DEMOLITION. THESE ELEMENTS INCLUDE BUT ARE NOT LIMITED TO: ALL ELECTRICAL DISTRIBUTION, LIGHTING FIXTURES (INTERIOR AND EXTERIOR, RECEPTACLES (INTERIOR AND EXTERIOR) DISCONNECTS. EXTERIOR LIGHTING SHALI REMAIN EXISTING. ELECTRICAL SERVICE PANEL TO BE REPLACED. METER, ALONG WITH CONDUCTORS TO MAIN SHALL REMAIN EXISTING. NOTE: EXTERIOR PENDANT LIGHTS AT ENTRY SHALL REMAIN EXISTING AND WEST PORCH SHALL REMAIN EXISTING.

DEMOLITION KEYNOTES

- EXISTING MASONRY WALLS TO REMAIN EXISTING FLOOR FRAMING TO REMAIN
- EXISTING HOSE BIB AND WATER SERVICE ENTRANCE TO REMAIN.
- DEMOLISH GAS METER AND LINES. CAP AT RISER
- DEMOLISH WATER HEATER
- DEMOLISH PLUMBING FIXTURE DEMOLISH APPLIANCES
- DEMOLISH PORCH ENCLOSURES ONLY. EXPOSE EXISTING PORCH DEMOLISH MILLWORK
- DEMOLISH MECHANICAL ROOF TOP UNIT
- DEMOLISH ELECTRICAL PANEL FOR REPLACEMENT, REFER TO ELECTRICAL SHEETS CONTRACTOR SHALL EXPOSE CEILING AROUND WALL PRIOR DEMOLISHING, AND NOTIFY ARCHITECT/ STRUCTURAL ENGINEER FOR OBSERVANCE PRIOR TO
- DEMOLISHING. 13. DEMOLISH WOOD DECK.

DEMOLITION LEGEND

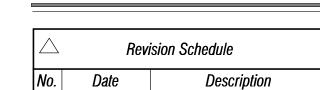






Apartments 6

5th Ave.



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Drawn: **GGV, FGC** Scale:

04/15/2020 1/4" = 1'-0" 2019.53 Job:

TITLE: FLOOR PLAN

FLOOR PLAN KEYNOTES

NEW

EXISTING

FLOOR PLAN LEGEND

D00R

WINDOW

COLUMN/POST

EXISTING

...

NOT USED

NOT USED

NOT USED

(E)COL.

FIRE WALL (MASONRY WALL)

NEW

....

NOT USED

SLIDING CLOSET

POCKET DOOR

"TYPE X" RATED GWB 1 HR FIRE WALL UL305

OVERHEAD

ELEMENTS

STAIRS

- DOUBLE SINK WITH GARBAGE DISPOSAL ON 36" HIGH SINK BASE AS APPROVED BY LANDLORD.
- 24" BUILT-IN DISHWASHER AS APPROVED BY LANDLORD.
- WALL MOUNTED OVEN AS APPROVED BY LANDLORD TOWEL BAR AS APPROVED BY LANDLORD.
- TOILET PAPER HOLDER AS APPROVED BY LANDLORD.
- MULTI-METER ELECTRICAL SERVICE ENTRANCE. REFER TO ELECTRICAL DRAWINGS CLOSET ROD AND SHELF AS APPROVED BY LANDLORD
- 1/4" PLATE GLASS MIRROR AS APPROVED BY LANDLORD FLOOR MOUNTED FLUSH TANK WATER CLOSET AS APPROVED BY LANDLORD.
- LAVATORY ON 36" HIGH BASE CABINET AS APPROVED BY LANDLORD. | 11. BUILT IN THREE (3) ROWS OF BUILT-IN SHELVING. COORDINATE SPACING WITH LANDLORD.
- 30" ELECTRIC RANGE/OVEN CONNECTION WITH EXHAUST HOOD ABOVE OVER-THE-RANGE MICROWAVE HOOD COMBINATION, ABOVE IN MILLWORK, AS
- APPROVED BY LANDLORD. 14. MILLWORK CABINETS. COUNTER TOP AND FINISHES AS SELECTED BY LANDLORD. TO
- BE INSTALLED WITH FULL HARDWARE. 50 GAL WATER HEATER PLACE ON PLATFORM, REFER TO PLUMBING DRAWINGS
- FAN COIL ON ATTIC SPACE, CONDENSING UNIT OVER CONCRETE OR FIBERGLASS PAD. THE DIMENSIONAL CRITERIA FOR PAD SHALL BE COORDINATED BY MECHANICAL CONTRACTOR. THE TOP OF PAD SHALL BE SET 4" MIN. ABOVE FINISH GRADE. REFER TO MECHANICAL DRAWINGS.

- 18. WASHER AS APPROVED BY LANDLORD, REUSE EXISTING SEWER. REFER TO
- PLUMBING DRAWINGS 19. DRYER AS APPROVED BY LANDLORD. VENT DUCT SHALL EXHAUST TO THE EXTERIOR. A MINIMUM OPENING OF 100 SQUARE INCHES FOR MAKEUP AIR SHALL BE PROVIDED TO ANY ROOM (PER ADOPTED CODE) CONTAINING A CLOTHES DRYER. ALL VENTS TO PENETRATE ROOF IN A MANNER THAT IS NOT EASILY VISIBLE BY A PERSON STANDING
- ON THE SIDEWALK FROM THE STREET FACING SIDE OF RESIDENCE. TILED SHOWER OVER CEMENT BOARD. INSTALL TILE AT MIN. HEIGHT OF 84" ABOVE
- DRAIN. PROVIDE SHOWER CURTAIN ROD OR SLIDE PANEL SYSTEM AS SELECTED BY LANDLORD.
- 21. REFRIGERATOR AS APPROVED BY HOMEOWNER. PROVIDE ICE MAKER OUTLET BOX
- WITH SOV 22. ATTIC ACCESS 30"X22" MINIMUM
- NEW HUNG WINDOW, FABRICATED BY LANDLORD. DESIGN, DIMENSIONS AND SILL HEIGHT TO MATCH EXISTING ADJACENT WINDOWS. REFER TO DETAIL 1/A1.2
- 24. ELECTRICAL SUBPANEL. REFER TO ELECTRICAL DRAWINGS

GENERAL FLOOR PLAN NOTES

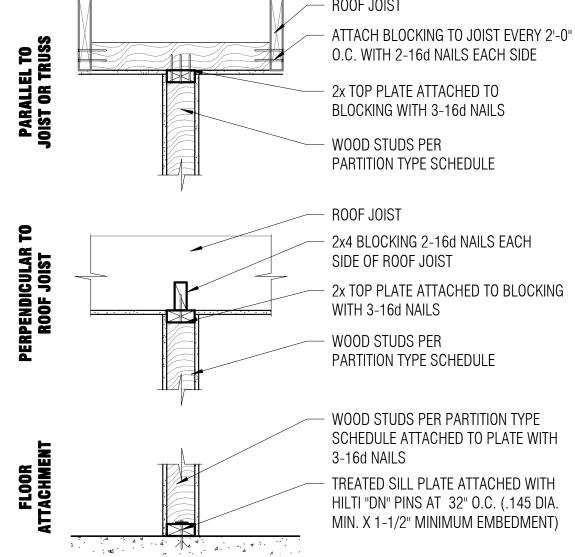
- MILLWORK DESIGN AND PARAMETERS ARE THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY ALL DIMENSIONS OF SITE CONDITIONS APPLIANCES WITH MANUFACTURER SPECIFICATIONS PRIOR TO FABRICATING / INSTALLING MILLWORK TO THE APPLIANCES DEDICATED LOCATION. SHOP DRAWINGS SHALL BE SUBMITTED AND APPROVED BY OWNER PRIOR TO FABRICATION
- INTERIOR WALL TEXTURE: AS SELECTED BY LANDLORD
- INTERIOR WALLS AND CEILINGS TO BE PAINTED. ONE COAT PRIMER, TWO COATS
- PAINT AS SELECTED BY LANDLORD ATTACH NEW CEILING WITH 5/8 GYPSUM BOARD, SAG RESISTANT. CEILING SHALL ATTACH TO CEILING JOISTS WITH 5d COOLER NAILS A MAXIMUM SPACING OF 7" O.C. OR 13GA GYPSUM SCREWS WITH MAXIMUM SPACING OF 12" O.C.
- ATTACHMENT OF WALL GYPSUM BOARD SHALL BE WITH 13 GA GYPSUM SCREWS
- FASTEN AT 12" O.C. OR 5d COOLER NAILS 8" O.C. PROVIDE UNFACED BATT INSULATION ABOVE CEILING OF ENTIRE CONDITIONED
- SPACE WITH R-38 PER N1102.1.1. PATCH/REPAIR EXISTING MASONRY WALL FINISH AS REQUIRED TO MATCH EXISTING CONDITION

PREFERENCE.

₩X>

GENERAL PARTITION: 2X4 STUDS TO ROOF DECK WITH 5/8" GYPSUM BOARD ON EXPOSED INTERIOR SIDE. FIRE CAULK, TAPE, TEXTURE, PRIME AND PAINT. LANDLORD TO PROVIDE PAINT COLOR AND TEXTURE FINISH PREFERENCE.

GENERAL PARTITION: 2X6 STUDS TO ROOF DECK WITH 5/8" TYPE 'X' GYP. ON BOTH SIDES. UL305 1HR RATING (MOISTURE RESISTANT AT PLUMBING WALLS). FIRE CAULK, TAPE, TEXTURE, PRIME AND PAINT. LANDLORD TO PROVIDE PAINT COLOR AND



DOOR SCHEDULE + NOTES

COUNT

P|2868

OPERATION SIZE WIDTH HEIGHT 6' - 8" 8 2' - 6" 2868 2' - 8" 6' - 8" 8 2668 6' - 8" 8 2' - 6" 6' - 8" 4 3' - 0" 6068 6' - 8" 8 6' - 0"

STANDARD RESIDENTIAL GRADE DOOR AND HARDWARE WITH PRIVACY OPERATOR. **PK** POCKET DOOR RESIDENTIAL GRADE. HARDWARE AND INSTALLATION BY

STANDARD RESIDENTIAL GRADE DOOR AND HARDWARE WITH PASSAGE OPERATOR. SCD SLIDING CLOSET DOOR WITH STANDARD HARDWARE ASSEMBLY INCLUDED WITH DOOR BY THE MANUFACTURER.

PROVIDE **WINDOW SCREEN**, FABRICATE TO MATCH EXISTING WOOD FRAMED WITH

ATTACHMENT TO EXISTING TOP HOOKS.

WINDOW ASSEMBLY TO MATCH

ADD SINGLE PANE GLASS TO MATCH

NOTE: ADD SCREEN TO WINDOW. SCREENS

BLACK UNLESS, OR AS PERMITTED BY THE

SHALL HAVE 75% OPACITY AND SHALL NOT BE

HISTORICAL GOVERNING JURISDICTION. SCREEN

SHALL BE WOOD TRIMMED AND PAINTED SAME

PENETRATION THROUGH U300 WALL

MAX. (PVC, PEX, ELECTRICAL TUBING)

- 5/8" (MIN.)THICK,

SEALANT APPLIED

WITH IN ANNULUS,

PIPE THROUGH

CAULK PERIMETER

INTUMESCENT BEAD

FIRE RATED WALL

ASSEMBLY PER

PENETRATION

WITH 1/4"

FLUSH BOTH SIDES

INTUMESCENT

OF WALL

FOR NON METALIC PIPING 2" DIA

PER W-L-2423

SIMILAR TO REPLICATE

ADJACENT CONDITION

EXISTING WINDOWS

MATCH EXISTING

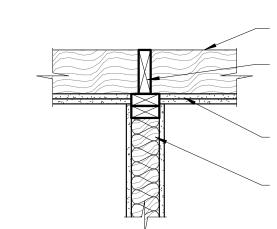
PAINT WINDOW FRAME TO

FABRICATOR OF SCREEN SHALL OBTAIN A

WINDOW DETAIL + NOTES

TYPICAL EXISTING WINDOW REFERENCE

FIRESTOP WALL PENETRATION FOR EXHAUST FAN DUCTING

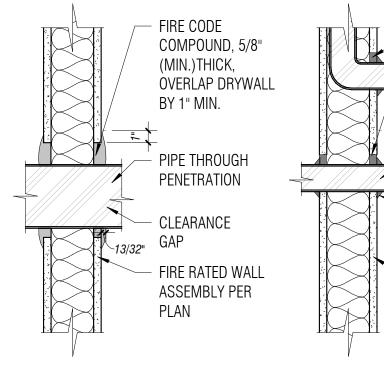


EXISTING ROOF STRUCTURE (WOOD TRUSSES) PROVIDE FIRE BLÓCKING BETWEEN TRUSSES

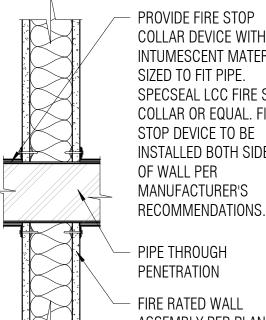
EXISITNG / PROPOSED DEMISING WALL, REPLACE GYPSUM WITH 5/8" TYPE X GYP. AT BOTH SIDES PER UL DES U305.

WINDOW REPAIR DETAIL

PENETRATION THROUGH U300 WALL FOR METALIC PIPING 4" DIA MAX. (Steel, Conduit, Copper) Per W-L-1087



PENETRATION THROUGH U300 WALL FOR NON METALIC PIPING 4" DIA MAX. (PVC,CPVC, ABS) PER W-L-2237



PROVIDE UL LISTED PUTTY PADS BEHIND ALL RECEPTACLES, JUNCTION BOX, AND SWITCH BOXES PROVIDE UL LISTED FIRE RATED GASKETS BEHIND COVER PLATE THE ANNULAR SPACE BETWEEN THE WALL AND BOX SHALL NOT EXCEED 1/8"

ELECTRICAL DEVICE (16 SQ IN)

STUD WALL.

MEMBRANE PENETRATION AT SINGLE

NOTE: THIS DETAIL IS NOT REQUIRED IF DEVICE IS INSTALLED IN INDIVIDUAL NON COMMUNICATING STUD CAVITIES (OMITTED PER IBC 714.4.2 EXCEPTION 1.1), IN A DOUBLE STAGGERED STUD WALL (OMITTED PER IBC 714.4.2 EXCEPTION 1.2) OR IF DEVICE IS SEPARATED BY SOLID FIRE **BLOCKING IN ACCORDANCE WITH 718.2.10** (OMITTED PER IBC 714.4.2 EXCEPTION 1.3)

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Diana K. 7

EXPIRES 6/30/2021

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Revision Schedule

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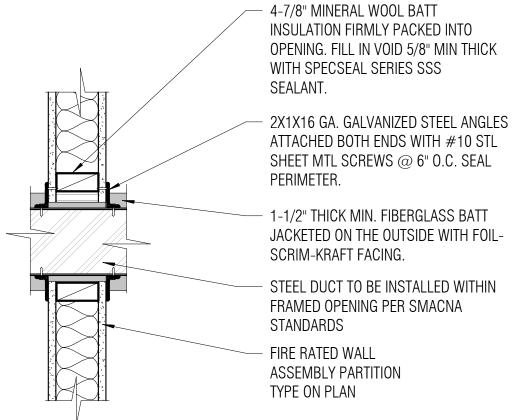
Description

Drawn: **FGC, GGV** 04/15/2020 Scale: As indicated 2019.53 Job:

Date

PARTITION TYPES, D00R SCHEDULES, WINDOW DETAIL, FIRE STOP.

DETAILS



NOTE: OPENING FOR 210 SQUARE INCHES MAX PER W-L-7149

WALL PERPENDICULAR TO JOIST.

(2) SHEETS OF 5/8" TYPE X GYP. AT CEILING PER UL FCA 90-02

EXISITNG / PROPOSED DEMISING ROCK WOOL OPTIONAL

SIZED TO FIT PIPE. SPECSEAL FIRE

DEVICE TO BE INSTALLED ON

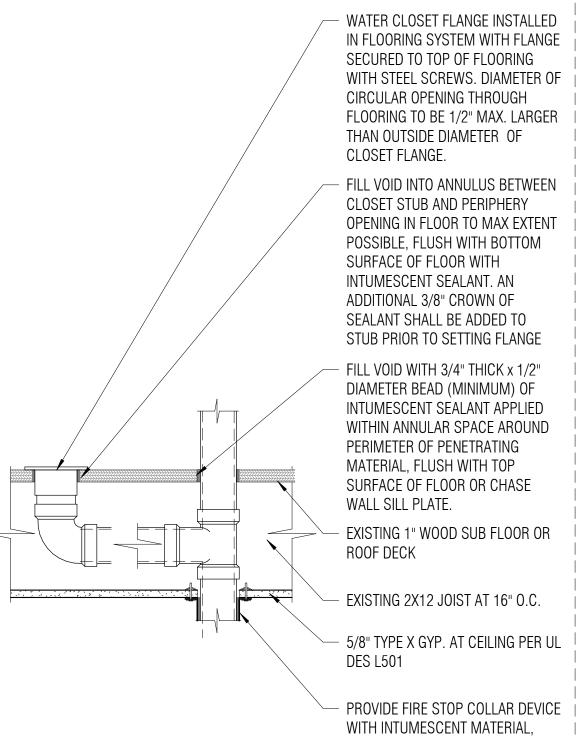
UNDERSIDE OF CEILING OR TOP

PLATE PER MANUFACTURER'S

RECOMMENDATIONS.

STOP COLLAR OR EQUAL. FIRE STOP

4 DEMISING WALL SEPARATION DETAIL AT ROOF 1" = 1'-0"



5 FIRESTOP FLOOR PENETRATION FOR 4" ABS 1 1/2" = 1'-0"

PENETRATION THROUGH L500 FLOOR

FOR NON METALIC PIPING 4" DIA MAX.

(PVC,ABS) PER F-C-2158 + F-C-2322

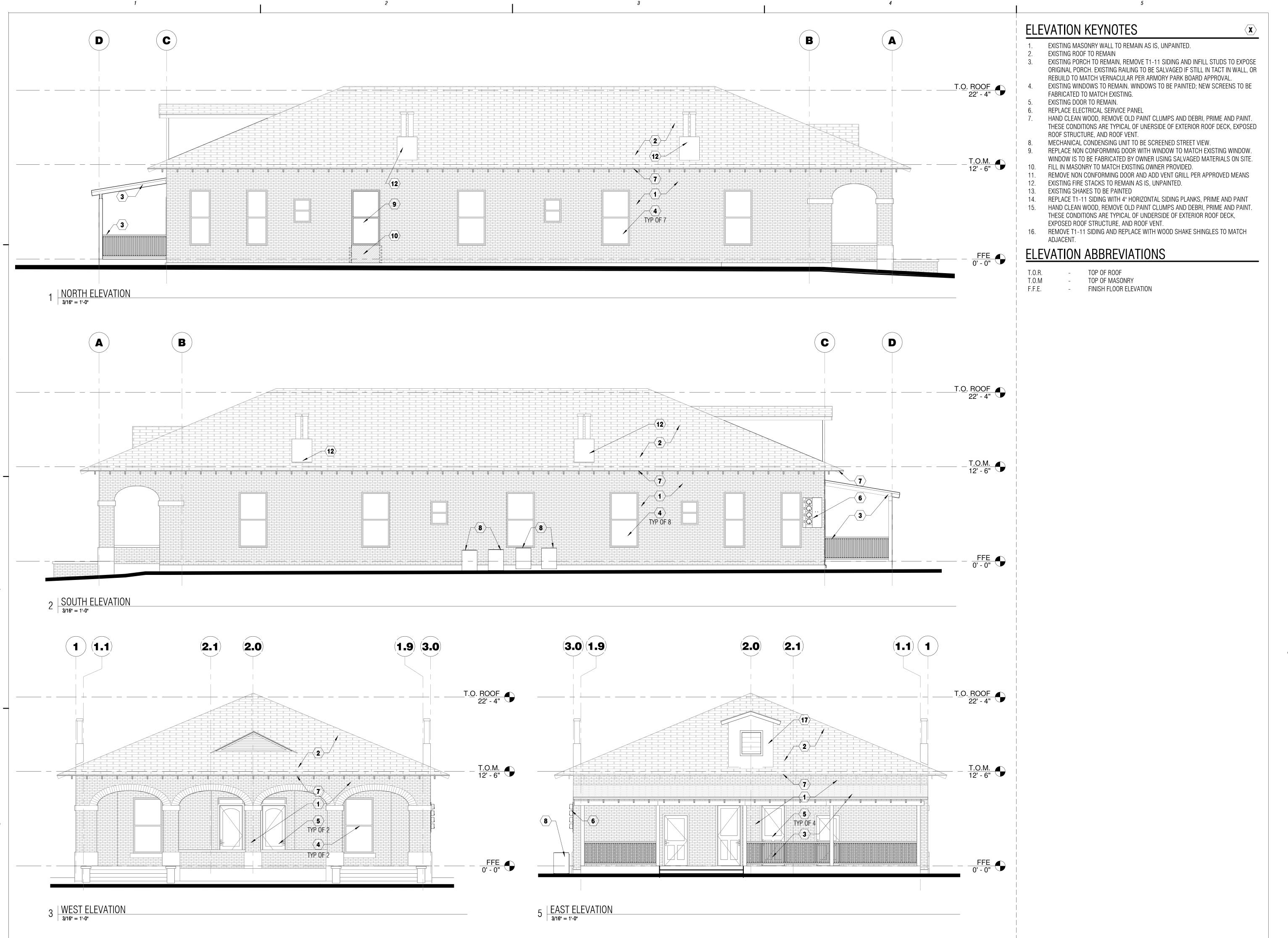
V

COLLAR DEVICE WITH INTUMESCENT MATERIAL, SPECSEAL LCC FIRE STOP COLLAR OR EQUAL. FIRE INSTALLED BOTH SIDES RECOMMENDATIONS.

ASSEMBLY PER PLAN

2 | FIRESTOP WALL + MEMBRANE PENETRATIONS 1 1/2" = 1'-0"

TEXTURE FINISH PREFERENCE. - ROOF JOIST





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Apartments

Revision Schedule

Date Description

419

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Drawn: GGV, FGC

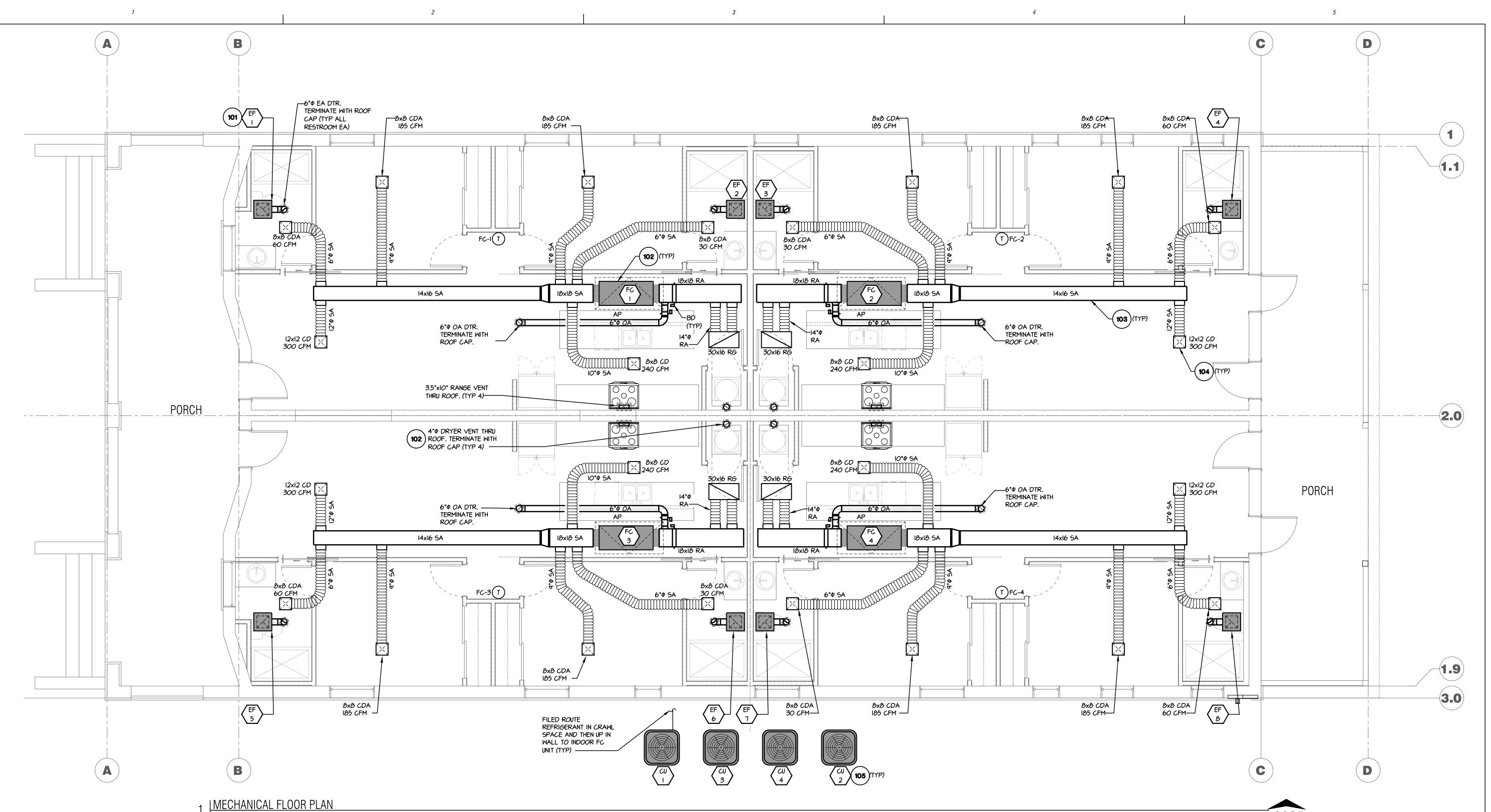
Date: 04/15/2020

Scale: 3/16" = 1'-0"

Job: 2019.53

EXTERIOR ELEVATIONS + NOTES

Sheet: A3.0



| HEAT PUMP SPLIT SYSTEM SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------------------------|-------|------|------------------|------------|--------------|-------------|------|-----------------|--------------------|------|------------|-----------|------|------|---------------------|-----|------|-------------|---------------------|----------|------|------|----------|-----|---------|
| | INDOOR FAN COIL UNIT OUTDOOR UNIT | | | | | | | | | | | | | | | | | | | | | | | | | |
| COOING CAPACITY (OA 104°DB/67°MB) (RA 75°DB/62°MB) HEATING CAPACITY @ 65° EDB 27° OA | | | | | | | | | ELECTRICAL DATA | | | | | | ELEC | TRICAL | | | | | | | | | | |
| MARK | MFGR AND MODEL | DISCH | CFM | MIN OA CFM | ESP "WG | TOTAL MBH | SENS MBH | SEER | МВН | ELEC HEAT KW | HSPF | ELECTRICAL | MAX HP | MCA | MOCP | DIMENSIONS LxMxH | LB5 | MARK | NOM TONS | MFG AND MODEL | V/PH/HZ | MCA | MOCP | DIM5 | LB5 | REMARKS |
| FC-I | CARRIER FX4DNBO3I | HORIZ | 1000 | 45 CFM | 0.5 | 28.8 | 21.9 | 15.2 | 29.4 | 5 | 8.5 | 230-1-60 | 1/2 | 28.4 | 30 | 54×23×22 | 150 | CU-I | 2.5 | CARRIER 25HBC530 | 230-1-60 | 18.1 | 30 | 35×35×33 | 150 | 12345 |
| FC-2 | CARRIER FX4DNBO3I | HORIZ | 1000 | 45 CFM | 0.5 | 28.8 | 21,9 | 15.2 | 29,4 | 5 | 8.5 | 230-1-60 | 1/2 | 28.4 | 30 | 54×23×22 | 150 | CU-2 | 2.5 | CARRIER 25HBC530 | 230-1-60 | 18.1 | 30 | 35×35×33 | 150 | 12345 |
| FC-3 | CARRIER FX4DNBO3I | HORIZ | 1000 | 45 CFM | 0.5 | 28.8 | 21,9 | 15.2 | 29,4 | 5 | 8.5 | 230-1-60 | 1/2 | 28.4 | 30 | 54×23×22 | 150 | CU-3 | 2.5 | CARRIER 25HBC530 | 230-1-60 | 18.1 | 30 | 35×35×33 | 150 | 12345 |
| FC-4 | CARRIER FX4DNBO3I | HORIZ | 1000 | 45 CFM | 0.5 | 28.8 | 21,9 | 15.2 | 29,4 | 5 | 8.5 | 230-1-60 | 1/2 | 28.4 | 30 | 54×23×22 | 150 | CU-4 | 2.5 | CARRIER 25HBC530 | 230-1-60 | 18.1 | 30 | 35×35×33 | 150 | 12345 |

ELECTRICAL CONTRACTOR TO PROVIDE SEPARATE POWER POINT CONNECTIONS TO FAN COIL UNIT AND OUTDOOR UNIT.

PROVIDE ALL FEATURES STANDARD TO THE UNIT SCHEDULED. PROVIDE LOW VOLTAGE CONTROL POWER TRANSFORMER, FAN RELAY, LIQUID LINE FILTER DRYER, AND ANTI-CYCLING CONTROL TO PREVENT RAPID COMPRESSOR CYCLING.

PROVIDE LOCKING 7-DAY PROGRAMMABLE HEAT PUMP THERMOSTAT. T'STAT SHALL HAVE MIN. 5° SET POINT OVERLAP RESTRICTION; AND OFF-HOUR CONTROLS CAPABLE OF AUTOMATIC STARTUP, AUTOMATIC SETBACK & SHUTDOWN, AND 2 HOUR OVERRIDE.

THERMOSTAT SHALL COMPLY WITH THE 2018 IECC SECTIONS C403.4. FAN COIL SHALL HAVE FACTORY INSTALLED SINGLE POINT POWER CONNECTION.

| | EXHAUST FAN SCHEDULE | | | | | | | | | | | | |
|------|----------------------|-----------------|------------|-----|--------|------------|------|----------|------------|-----------------|-------|--------|---------|
| | 145 CD AND | () rear | 65) | 272 | ESP IN | MOTOR DATA | | | | BACK | 60156 | | |
| MARK | MFGR AND MODEL | (I) TYPE | CFM | DTR | WG | SPEED | AMPS | ELECTRIC | DISCONNECT | DRAFT DAMPER | SONES | WEIGHT | REMARKS |
| EF-I | BROAN QTXEOBO | CEILING MOUNTED | 50 | 6"Φ | .1 | I | 0.4 | 115-1-60 | YES | YE5 | 0.3 | 15 | 2345 |
| EF-2 | BROAN QTXEOBO | CEILING MOUNTED | 50 | 6"Φ | .I | I | 0.4 | 115-1-60 | YES | YES | 0.3 | 15 | 2345 |
| EF-3 | BROAN QTXEO8O | CEILING MOUNTED | 50 | 6"Φ | .I. | I | 0.4 | 115-1-60 | YES | YES | 0.3 | 15 | 2345 |
| EF-4 | BROAN QTXEO8O | CEILING MOUNTED | 50 | 6"Φ | ,I | I | 0.4 | 115-1-60 | YES | YES | 0.3 | 15 | 2345 |
| EF-5 | BROAN QTXEO8O | CEILING MOUNTED | 50 | 6"Φ | .I | I | 0.4 | 115-1-60 | YES | YES | 0.3 | 15 | 2345 |
| EF-6 | BROAN QTXEO8O | CEILING MOUNTED | 50 | 6"Φ | .I | I | 0.4 | 115-1-60 | YES | YES | 0.3 | 15 | 2345 |
| EF-7 | BROAN QTXEO8O | CEILING MOUNTED | 50 | 6"Φ | .I. | I | 0.4 | 115-1-60 | YES | YES | 0.3 | 15 | 2345 |
| EF-8 | BROAN QTXEOBO | CEILING MOUNTED | 50 | 6"Φ | .1 | I | 0.4 | 115-1-60 | YES | YES | 0.3 | 15 | 2345 |

Basis of Design. . PROVIDE MANUFACTURER'S HANGING ISOLATION KIT.

B. PROVIDE MANUFACTURER'S ROOF CAP.

PROVIDE MANUFACTURER'S GRILLE.
 PROVIDE SEPARATE WALL SWITCH, COORDINATE WITH ELECTRICAL.

MECHANICAL ENGINEERING PROJECT NO. 20247 P: (520) 731-2060 www.phmech.com F: (520) 731-2061



Apartments 6

6

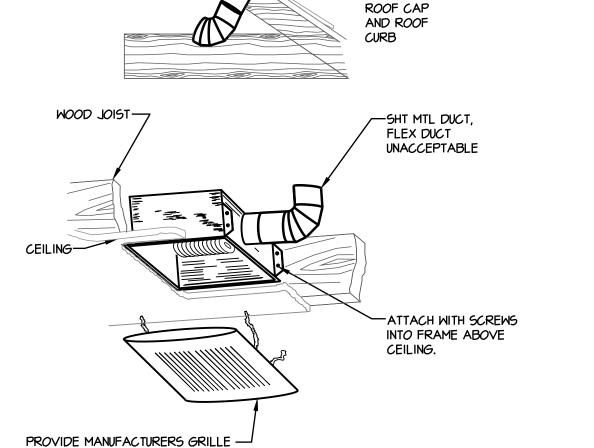
Revision Schedule Date Description

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Drawn: LAS Date: Scale: 1/4" = 1'-0" Job: 2019.53

| TITLE: | MECHANICAL FLOOR PLAN

HOSE CLAMPS -



FAN COIL DETAIL (HORIZ) 102 N.T.S.

-FLEXIBLE

LOCATE SO AS NOT

ACCESS PANEL-

3/8" ALL THREAD ROD (TYP EACH

DUCT TRANSITION -

PROVIDE ACCESS BELOW UNIT COORD. WITH ARCHITECT

CORNER)
SUPPORT FROM
STRUCTURE

TO INTERFERE WITH

RUBBER IN-SHEAR

PROVIDE UNISTRUT

ON UNIT AS REQUIRED

(TYP 4 PLACES)

ISOLATORS

DRYER VENT DETAIL 102

ALUMINUM FLEX DRYER

INSULATED

FLEXIBLE DUCT WITH

SAG ON I-I/2" GALV.

-ROUND DUCT (LENGTH

AS REQ'D.) WITH DUCT

SUPPLY DUCT MAIN-

STRAP HANGERS

WRAP INSULATION

(NOT SHOWN)

4DUCT LINER

- CONICAL TAP; OR

PROVIDE HET (HIGH

(WHERE SPECIFIED)

105

CONTRACTORS OPTION

VAPOR BARRIER

-SUPPORT WITHOUT

CEILING MOUNTED EXHAUST FAN DETAIL N.T.S.

101

NOTE: TERMINATION OF EA DUCT SHALL BE MIN OF IO'

FROM ANY INTAKE VENT OR

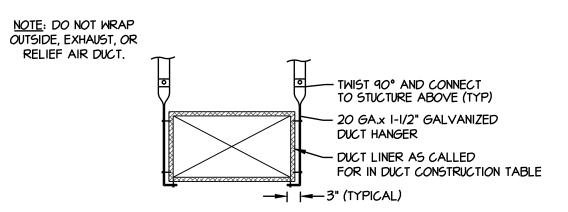
SUPPLY FAN.

MANUFR'S

INTERIOR DUCT SHEET METAL SIDE LINER WHERE ENTRY DIFFUSER SPECIFIED. APPLY MAIN DUCT BOX WITH DUCT ADHESIVE UNDER LINER AND ROUND DUCT LINER AND DUCT COLLAR -THOROUGHLY COAT 12 GAUGE CUT EDGE OF LINER STEEL WIRE WITH ADHESIVE. --PROVIDE E-Z CONICAL FLEX DUCT & BENDING/ SUPPORTS -TAP, CONE DIAMETER RADIUS TO 1.5 DUCT SHALL BE SIZED PER DIAMETER-DAMPER W SUPPORT MANUF'S REQUIREMENT LOCKING QUADRANT CHANNELS -TAPE AND CLAMP ROUND SHEET METAL BRANCH BOLTED TO SEQUENCE OR FLEXIBLE DUCT PER PLAN -SIDE OF DIFFUSER ROUND TAKE OFF BOX — —PULL BACK PUSH INSULATION FRAMING INSULATION DOWN AND TIGHTLY W/ —APPLY 2 APPLY PANDUIT **AROUND** LAYERS OF 2-LAYERS OF STRAP OR, OPENING \ TAPE & OVER VAPOR LAYERS PANDUIT OF TAPE. BARRIER -STRAP <u> STEP # 1</u> STEP # 2 TAPE AND CLAMP SEQUENCE SEQUENCE EFFICIENCY TAKEOFF).

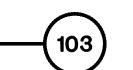
SWITCH & 24-VOLT LED LIGHT

ALARM. INTERLOCK SHUTOFF WITH FAN COIL'S THERMOSTAT

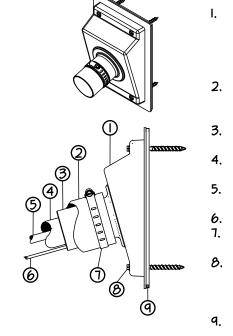


CEILING DIFFUSER AND FLEXIBLE DUCT DETAIL

DUCT HANGER DETAIL



I. ALLOW 24" CLEARANCE TO SERVICE END OF UNIT. 48" ABOVE UNIT, 6" ON ONE SIDE, I2" ON REMAINING SIDE, AND 24" BETWEEN UNITS FOR PROPER AIRFLOW.



EXTERIOR WALL OR PARAPET WALL SEAL PENETRATION OUTLET WITH ELASTOMERIC LINE-SET COMPRESSION SLEEVE BY AIREX MANUFACTURING INC. INSULATION PROTECTIVE PVC COVER TPE "E-FLEX GUARD" BY AIREX MANUFACTURING INC. ELASTOMERIC LINE-SET COMPRESSION & VIBRATION SLEEVE INSULATION FOR REFRIGERATION

5. INSULATION FOR REFRIGERATION LIQUID LINE REFRIGERATION LIQUID LINE MECHANICAL CONNECTION SECURED WITH STAINLESS STEEL CLAMP WALL FASTENERS SELF TAPPING3/8" HEX HEAD I/4" DIAMETER ALL MATERIAL ANCHORS SCREWS WITH ELASTOMERIC WASHERS WALL SURFACE SEAL ELASTOMERIC

EXTERIOR WALL OR PARAPET WALL SEAL PENETRATION OUTLET WITH ELASTOMERIC LINE-SET COMPRESSION SLEEVE TYPE BY AIREX MANUFACTURING INC. — INSULATION PROTECTIVE PVC COVER TYPE "E-FLEX GUARD" BY AIREX MANUFACTURING -EXTERIOR WALL ALL MATERIAL OUTDOOR WALL ANCHOR CONDENSING SCREWS PART OF COMPONENT "A" ~WALL SURFACE **VIBRATION** GASKET SEAL PART WAFFLE PADS OF COMPONENT "A" (TYP 4 CORNERS)--Stainless Steel CLAMP PART OF CONDENSER COMPONENT "A" LIQUID LINE— —UV CABLE TIES PART OF SUCTION LINE -COMPONENT "B"

CONDENSING UNIT DETAIL

WHOLE HOUSE OA VENTILATION SCHEDULE PER-IRC M1505 4 3(1)

| 1110 1411303.4.0(1) | | | | | | | | | | |
|---------------------|------------------------------------|-----------------------|------------------------------------|--|--|--|--|--|--|--|
| | SQUARE FEET OF DWELLING UNIT | NUMBER OF BEDROOMS | CONTINUOUS VENTILATION REQUIRED | | | | | | | |
| ALL UNITS | <i5<i>00</i5<i> | 2 | 45 CFM | | | | | | | |

| DU | DUCT CONSTRUCTION TABLE | | | | | | | | |
|--|--|--------------|--|--|--|--|--|--|--|
| DUCT TYPE | DUCT MATERIAL | INSULATION | | | | | | | |
| SUPPLY/RETURN AIR | SHEET METAL | I-I/2" LINER | | | | | | | |
| GENERAL EXHAUST | SHEET METAL | NONE | | | | | | | |
| OUTSIDE AIR | SHEET METAL | NONE | | | | | | | |
| FLEX SA | FLEXIBLE POLYESTER, PVC OR EQUIVALENT | R-8 | | | | | | | |
| FLEX RA | FLEXIBLE POLYESTER, PVC OR EQUIVALENT | R-8 | | | | | | | |
| DRYER DUCT | FOIL TYPE OR FLEXIBLE ALUMINUM | NONE | | | | | | | |
| NOTE: GAUGES AND INSTALLATION SHALL BE ACCORDING TO LATEST SMACNA. | | | | | | | | | |

MECHANICAL LEGEND ABBREV. ITEM SYMBOL —R— **REFRIGERANT** FLEX CONNECTION SUPPLY AIR DUCT RETURN AIR DUCT EXHAUST AIR DUCT ACCESS PANEL FILTERED RETURN AIR GRILLE - KRUEGER MODEL 580 PROVIDE SURFACE MOUNT FRAME WITH I" FILTER RACK. COORDINATE FINISH WITH ARCHITECT. SUPPLY AIR CEILING DIFFUSER - KRUEGER CDA MODEL 180 PROVIDE SURFACE MOUNT FRAME & OBD. COORDINATE FINISH WITH ARCHITECT. ـــــــ BD MANUAL BALANCE DAMPER (BUTTERFLY) FLEX DUCTWORK **THERMOSTAT** DUCT THRU ROOF SUPPLY AIR RETURN AIR EXHAUST AIR OUTSIDE AIR FLEX OR ROUND DUCTWORK DN DOWN CLG CEILING TURNING VANES ΤV ABV **ABOVE** OH**OVERHEAD** BLW BELOW OBD OPPOSED BLADE DAMPER UNLESS NOTED OTHERWISE U.N.O. NOTE: SOME OF THE ITEMS MAY NOT APPLY TO THIS PROJECT.

MECHANICAL PLAN NOTES

PART I - GENERAL:
I.OI ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH IRC-2018 WITH ALL CODES, LAWS, RULES, AND REGULATIONS OF ALL NATIONAL, STATE, COUNTY AND LOCAL AUTHORITIES HAVING JURISDICTION OVER THE PREMISES. MECHANICAL SHALL COMPLY WITH 2018 IRC. HOWEVER, THIS SHALL NOT BE CONSTRUED TO RELIEVE THIS CONTRACTOR FROM COMPLYING WITH REQUIREMENTS OF THE PLANS AND SPECIFICATIONS WHICH MAY BE IN EXCESS OF CODE REQUIREMENTS. CONTRACTOR TO SECURE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.

1.02 HVAC DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO SHOW THE APPROXIMATE LOCATION OF DUCTWORK, OUTLETS, EQUIPMENT AND PIPING, DIMENSIONS GIVEN IN FIGURES ON THE PLANS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS, AND ALL DIMENSIONS, WHETHER GIVEN IN FIGURES OR SCALED, SHALL BE FIELD VERIFIED, NO DUCTWORK SHALL BE FABRICATED UNTIL DUCT CLEARANCES ARE FIELD VERIFIED.

.03 BEFORE SUBMITTING A BID CAREFULLY STUDY ALL THE CONSTRUCTION DOCUMENTS, CAREFULLY EXAMINE THE PREMISES AND ANY EXISTING WORK, DETERMINE, IN ADVANCE, THE METHODS OF INSTALLING AND CONNECTING THE EQUIPMENT AND BECOME THOROUGHLY FAMILIAR WITH ALL OF THE REQUIREMENTS OF THE CONTRACT.

1.04 MAKE ARRANGEMENTS FOR INSPECTIONS AND PERFORM

1.05 FURNISH ANY MISCELLANEOUS ITEMS NORMALLY USED, SPECIFICALLY MENTIONED OR NOT, TO RENDER A COMPLETE INSTALLATION.

TESTS REQUIRED FOR HVAC WORK.

1.06 ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS, EQUIPMENT ACCESS SHALL MEET ALL REQUIREMENTS OF MI3O5.

<u>PART II - PRODUCTS:</u> 2.01 CONDENSATE PIPING AND GAS PIPING: A. SEE PLUMBING DWGS FOR CONDENSATE AND GAS PIPING.

2.02 INSULATION: A. DUCT INSULATION SHALL MEET ALL REQUIREMENTS OF NIIO3.3.1 (R4O3.3.1). EXTERIOR DUCTWORK SHALL BE LINED WITH R-8 (2") INSULATION, DUCTS BELOW INSULATED ROOF AND ABOVE CEILING SHALL BE INSULATED WITH R-8 (2") INSULATION, DUCTS INSIDE CONDITIONED SPACE SHALL NOT BE INSULATED. THE DUCTS SHOWN ARE SHEET METAL TO SHEET METAL SIZES.

B. FLEX DUCT MUST ALSO MEET THE INSULATION VALUES. 2.03 REFRIGERANT PIPING: A. REFRIGERANT PIPING SHALL COMPLY WITH MI411.6-8. B. SHALL BE TYPE ACR COPPER. C. SUCTION LINE TO BE INSULATED WITH MIN, R-4 INSULATION EXPOSED TO WEATHER TO BE PAINTED WITH TWO (2) COATS ARMAFLEX COATING, REFRIGERATION PIPING TO HAVE TRIPLE EVACUATION WITH DRY NITROGEN. D. JOINTS IN COPPER AIR CONDITIONING REFRIGERANT PIPING SHALL BE MADE WITH SILFOS AND FLUX AS RECOMMENDED BY THE BRAZING ALLOY MANUFACTURER. E. DURING BRAZING THE PIPE AND FITTINGS SHALL BE KEPT FULL OF AN INERT GAS, DRYING NITROGEN, OR CO2 TO PREVENT FORMATION OF SCALE.

2.04 EXHAUST AND COMBUSTION AIR SYSTEMS:

CHAPTER 15 AND CHAPTER 24 OF THE IRC 2018. 2.05 CLOTHES DRYER EXHAUST SHALL COMPLY WITH SECTION

A. EXHAUST AND COMBUSTION AIR SYSTEMS SHALL MEET

2.06 COOKING EXAUST SYSTEMS AND MAKEUP AIR SYSTEM SHALL

2.07 MECHANICAL VENTILATION FOR THE BUILDING SHALL COMPLY WITH SECTION 1505.

2.08 WHOLE HOUSE MECHANICAL VENTILATION SHALL COMPLY WITH TABLES MI505.4.3 (I) OR (2).

2.09 PROVIDE VIBRATION ISOLATORS AS REQUIRED BY SECTION

A, DUCT SYSTEMS, MATERIALS, AND INSTALLATION SHALL MEET ALL REQUIREMENTS OF CHAPTER 16 OF THE IRC 2018.

2.II DUCTS SHALL BE SEALED PER NIIO3.3.2.I (R4O3.3.2.I).

2.12 DUCTS SHALL BE LEAK TESTED PER NIIO3.3.3 (R4O3.3.3).

2.13 ABOVE GROUND DUCT SYSTEMS SHALL COMPLY WITH MIGOI.I.I

2.14 DUCT INSTALLATIONS SHALL BE FIRE BLOCKED PER R602.8.

2.15 DUCTS LOCATED IN GARAGES SHALL COMPLY WITH R302.5.2.

2.16 THERMOSTAT SHALL COMPLY WITH SECTION NIIO3.3.2.1 (R403.3.2.I).

PART III - EXECUTION:

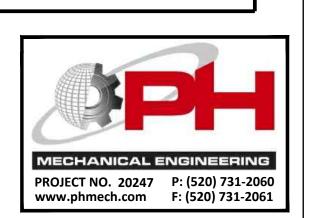
3.01 PROVIDE ALL OPENINGS REQUIRED THROUGH THE ROOF OR WALLS.

3.02 PROVIDE ACCESS PANELS FOR ANY EQUIPMENT REQUIRING ACCESS LOCATED ABOVE SOLID CEILINGS.

3.03 MAKE NOTE OF ANY CHANGES MADE IN LAYOUT AND INCORPORATE IN "RECORD" DRAWINGS SUBMITTED TO THE ARCHITECT AT COMPLETION OF PROJECT.

3.04 GUARANTEE ALL PARTS AND LABOR FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE AND PROVIDE AN ADDITIONAL FOUR-YEAR WARRANTY FOR ALL A/C COMPRESSORS.

END OF NOTES





520.204.2162 | 2536 E. 6th Street; Tucson, Az 85716

Apartment

o

d

5th

S

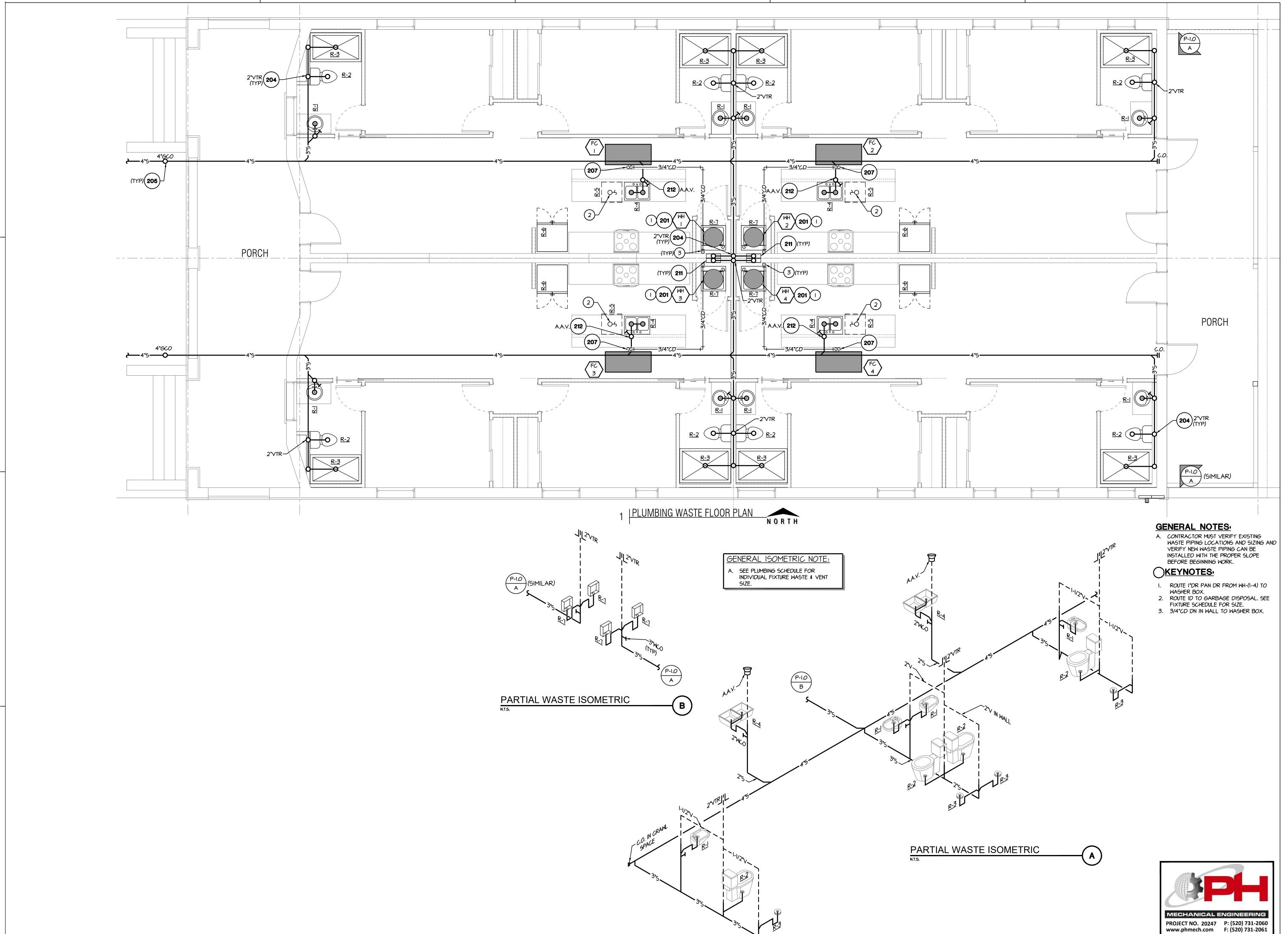
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Revision Schedule Date Description

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Drawn: LAS 04/15/2020 Date: Scale: 1/4" = 1'-0" 2019.53 Job:

TITLE: MECHANICAL DETAILS AND





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Apartments 6

Revision Schedule Date Description

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Drawn: JEH, DK Date: Scale: 04/15/2020 2019.53 Job:

1/4" = 1'-0"

TITLE: PLUMBING WASTE FLOOR PLAN



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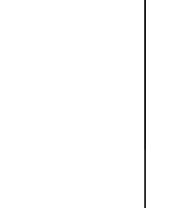
419 Apartments

| A Revision Schedule | | | | | | | | | | |
|------------------------------|-------------|--|---|--|--|--|--|--|--|--|
| No. | | Date | Description | | | | | | | |
| and ot | ner informa | tion on the drawings | of service and the property of GGV Designs,PLLC. All designs is are for the purposes of this project and shall not be used en permission of GGV Designs,PLLC. | | | | | | | |
| Drav Date Scal Jobs | : e: | JEH, DK 04/15/2020 1/4" = 1'- 2019.53 | | | | | | | | |
| TITI | .E: | | MBING WATER OR PLAN | | | | | | | |
| | | | Chooks | | | | | | | |



Apartments

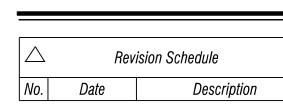




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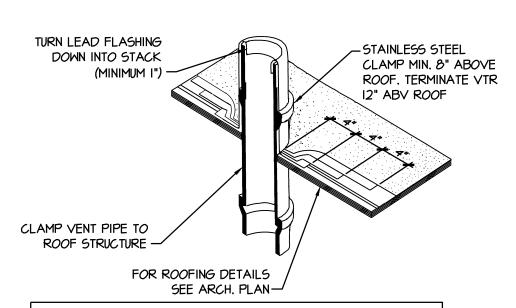
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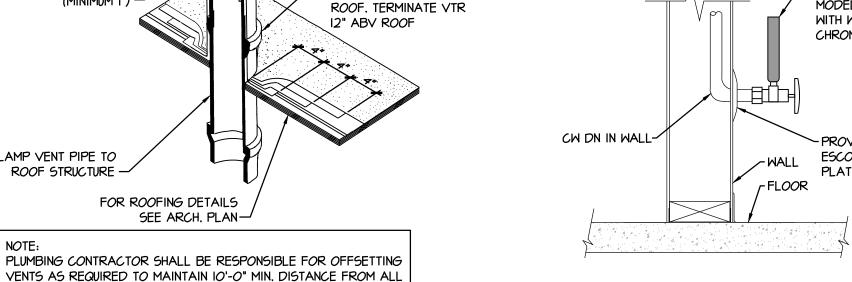


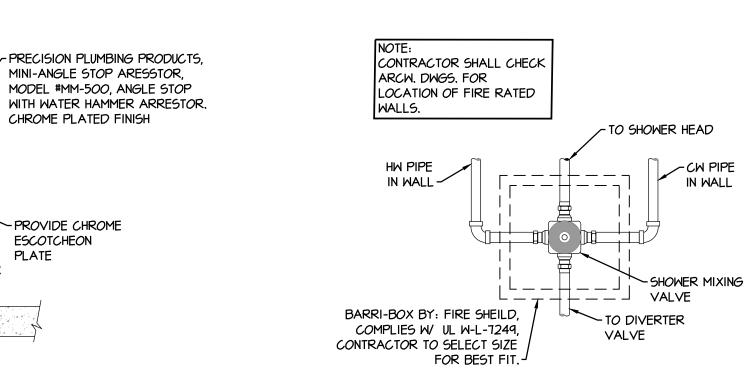
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JEH, DK 04/15/2020 Scale: 1/4" = 1'-0"

PLUMBING **DETAILS**

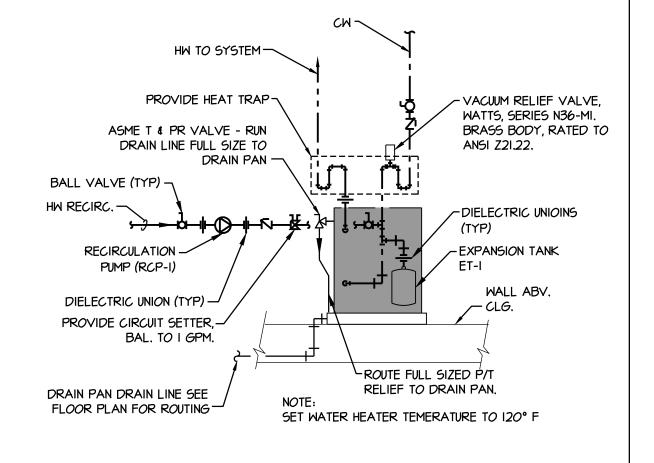






SHOWER MIXING VALVE IN

FIRE RATED WALL DETAIL





STUD OR BLOCKING~

ELCEN SPEED

STRUT FABRICATED

SCREW-

·1/2" Ø FULL

THREADED

ROD(TYP)

STANDARD PIPE CLAMPER

650 (TYP)

ELCEN FIG. NO.

GALVANIZED -U-CLAMP

ALL HANGER BRACING AND SPACING OF PIPING SHALL BE INSTALLED IN

- STEEL ANGEL TO STRUCT.

HANGER ROD & NUTS

HANGER

-INSULATION (HW

& HWR PIPE)

MEMBER.

ACCORDANCE WITH IPC, ASPE, &

ASHRAE GUIDELINES.

BLACK TOP OR GRADE -

12X12X6 INCH CONC. BLOCK —

MYE BRANCH -

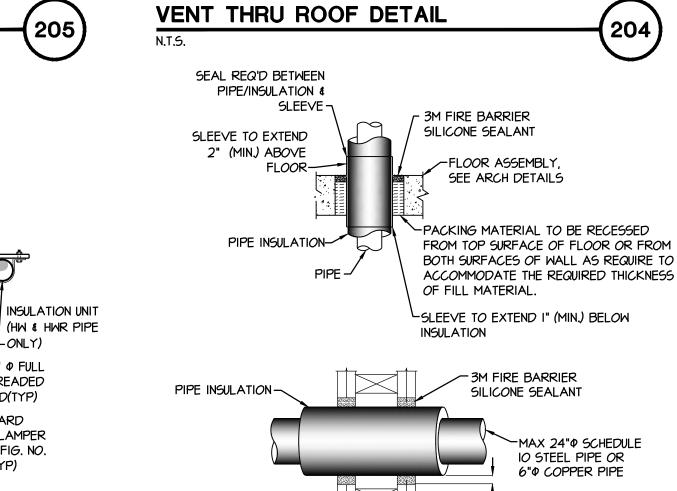
- CLEANOUT FLUSH WITH

GRADE PER SPECS.

RISER TO GRADE

END OF RUN

LOCATIONS



2 HOUR GYPSUM

ASSEMBLY - SEE

WALLBOARD

AIR CONDITIONING AIR INTAKES AND BUILDING INTAKES.

COORDINATE VENTS THRU ROOF WITH MECHANICAL CONTRACTOR.

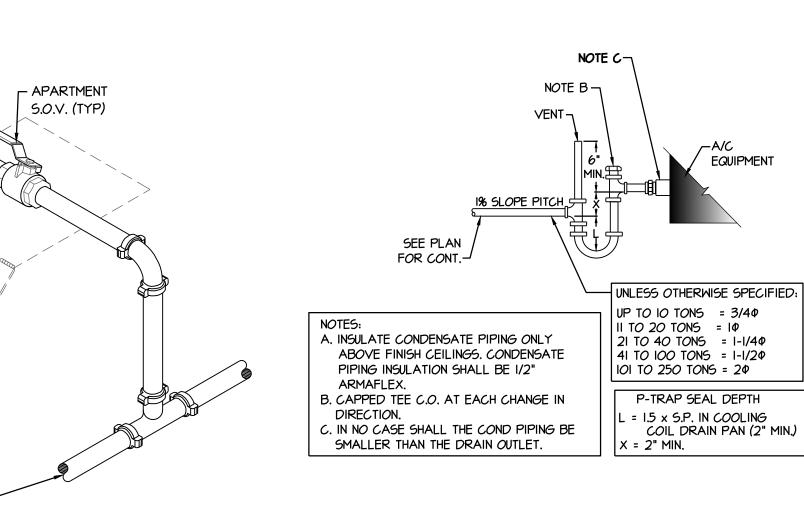


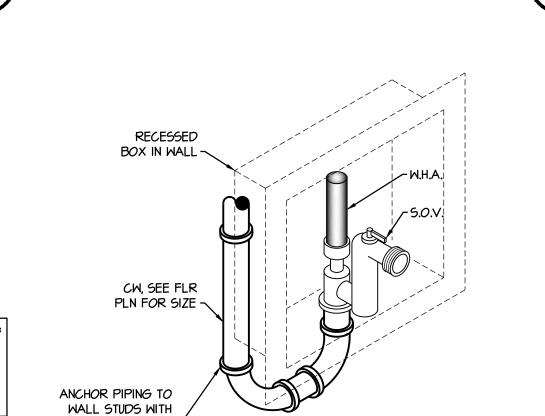
CW LINES TO

APARTMENT -

12XI2 ACCESS

PANEL -





REFRIGERATOR RECESSED BOX

W/ W.H.A. AND S.O.V. DETAIL

PIPE CLAMPS-/

ELECTRIC WATER HEATER

W/ RECIRCULATION DETAIL

| FOR NON RATED WALLS: | OATEY 38570 ICEMAKER OUTLET BOX W |
|----------------------|---|
| FOR RATED WALLS: | WATER HAMMER ARRESTOR & S.O.V. OATEY 39121 FIRE RATED ICE MAKER OUTLET BOX W/ WATER HAMMER ARRESTOR & S.O.V. |





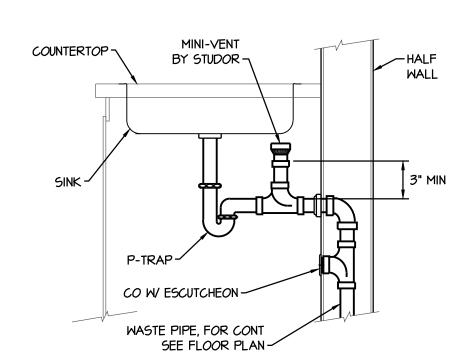
L3/4" ANNULAR

SPACE (MAX.)

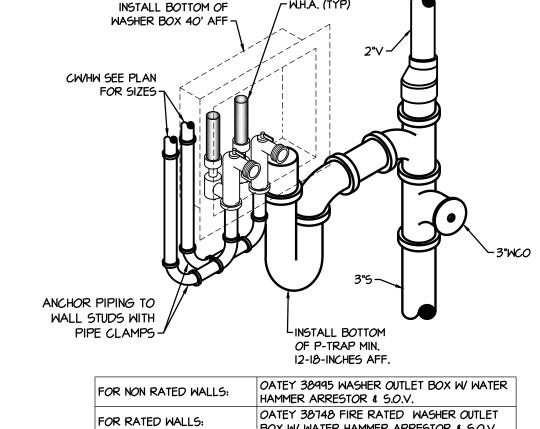


CW MAIN IN PORCH CEILING -









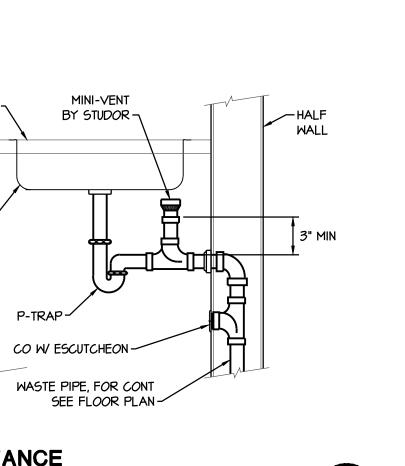
| WASHER BOX W/ S.O.V. AND W.H.A. DETAIL | |
|---|-----|
| N.T.S. | 211 |

BOX W WATER HAMMER ARRESTOR & S.O.V.



(206

-PROVIDE CHROME **ESCOTCHEON**





DO NOT SCALE DRAWINGS

Drawn: Date:

2019.53 Job:

I.OI ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL CODES, LAWS, RULES AND REGULATIONS OF ALL NATIONAL, COUNTY, STATE AND LOCAL AUTHORITIES HAVING JURISDICTION OVER THE PREMISES. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE 2018 INTERNATIONAL PLUMBING CODE FIRE PROTECTION ASSOCIATION. IN CASE OF DIFFERENCES, SAID REGULATIONS SHALL GOVERN. HOWEVER, THIS SHALL NOT BE CONSTRUED TO RELIEVE THE CONTRACTOR FROM COMPLYING WITH REQUIREMENTS OF THE PLANS AND SPECIFICATIONS, WHICH MAY BE IN EXCESS OF CODE REQUIREMENTS.

1.02 PLUMBING DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO SHOW THE PART 2 CONSTRUCTION REQUIREMENTS: APPROXIMATE LOCATION OF FIXTURES, EQUIPMENT AND PIPING. DIMENSIONS 2.01 ALL OVERHEAD PIPING TO BE SUSPENDED FROM STRUCTURE ABOVE WITH GIVEN IN FIGURES ON THE PLANS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS AND ALL DIMENSIONS, WHETHER GIVEN IN FIGURES OR SCALED, SHALL BE VERIFIED IN THE FIELD.

1.03 BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL CAREFULLY STUDY THE 2.02 ALL PLUMBING FIXTURES TO HAVE ACCESSIBLE STOPS. MECHANICAL AND PLUMBING DRAWINGS AND ALL ASSOCIATED OF THE PREMISES AND ANY EXISTING CONDITIONS, INCLUDING INVERTS TO ENSURE PROPER SLOPE MAY BE OBTAINED. HE SHALL DETERMINE, IN ADVANCE, THE METHODS OF INSTALLING AND CONNECTING THE APPARATUS, THE MEANS TO BE PROVIDED FOR GETTING THE EQUIPMENT INTO PLACE, AND SHALL MAKE HIMSELF THOROUGHLY FAMILIAR WITH ALL OF THE REQUIREMENTS OF THE CONTRACT.

1.04 BY THE ACT OF SUBMITTING A PROPOSAL FOR THE WORK REQUIRED AND INCLUDED IN THE CONTRACT, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH STUDY AND EXAMINATION, AND TO BE FAMILIAR WITH AND ACCEPT ALL CONDITIONS OF THE SITE.

1.05 MAKE ARRANGEMENTS FOR AND PAY FOR ALL FEES, PERMITS, LICENSES, CONNECTION CHARGES AND INSPECTIONS REQUIRED FOR PLUMBING WORK. PERFORM REQUIRED TESTS AND SECURE REQUIRED INSPECTIONS PRIOR TO BACK-FILLING.

1.06 WRAP ALL PIPING IN BLOCK WALLS OR PENETRATING CONCRETE WITH IO MIL 2.06 PLUMBER TO FINISH AND INSTALL THE A/C CONDENSATE DRAIN PIPING. POLYVINYL TAPE.

1.07 CONTRACTOR SHALL FURNISH ANY MISCELLANEOUS ITEMS NORMALLY USED, SPECIFICALLY MENTIONED OR NOT, TO RENDER A COMPLETE INSTALLATION.

1.08 ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURES REQUIREMENTS. EQUAL EQUIPMENT MAY BE USED ON THE PROJECT. IT IS THE CONTRACTORS RESPONSIBILITY TO CONFIRM THAT SUCH EQUIPMENT HAS EQUAL CAPACITY, THE SAME ELECTRICAL CHARACTERISTICS, AND SUBSTANTIALLY THE SAME PHYSICAL DIMENSIONS AND CAN BE INSTALLED IN THE SPACE AVAILABLE WITH AMPLE WORKING SPACE AROUND IT. ANY EXTRA COSTS RESULTING FROM EQUIPMENT SUBSTITUTION SHALL BE BORNE BY THIS CONTRACTOR.

1.09 PER SECTION 602.3.4 OF THE IPC UPON COMPLETION OF DOMESTIC WATER, PERFORM A STERILIZATION OF THE DOMESTIC WATER SYSTEM OR THE PART THEREOF. THE SYSTEM OR THE PART THEREOF SHALL BE FILLED WITH A WATER/CHLORINE SOLUTION CONTAINING AT LEAST 50 PPM OF CHLORINE, AND THE SYSTEM OR PART THEREOF SHALL BE VALVED OFF AND ALLOWED TO STAND FOR 24 HOURS; OR THE SYSTEM OR THE PART THEREOF SHALL BE FILLED WITH A WATER/CHLORINE SOLUTION CONTAINING 200 PPM OF CHLORINE AND ALLOWED TO STAND FOR 3 HOURS. FOLLOWING THE REQUIRED STANDING TIME, THE SYSTEM SHALL BE FLUSHED WITH CLEAN POTABLE WATER UNTIL THE CHLORINE IS PURGED FROM SYSTEM. START AND FINISH INSPECTIONS SHALL BE PERFORMED BY THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR ENGINEER AND INSPECTOR BY AN APPROVED AGENCY (A BACTERIOLOGICAL EXAMINATION) THAT NO CONTAMINATION PERSISTS IN THE SYSTEM.

IF LESS THEN IO' OF NEW PIPE IS ADDED THIS STEP MAY BE ELIMINATED. I.IO CONTRACTOR SHALL GUARANTEE ALL PARTS AND LABOR FOR ONE (I) YEAR FROM DATE OF FINAL ACCEPTANCE.

MAKE NOTE OF ANY CHANGES MADE IN LAYOUT AND INCORPORATE IN "RECORD" DRAWINGS.

(IPC '18), THE INTERNATIONAL BUILDING CODE AND THE INTERNATIONAL FIRE 1.12 THE CONTRACTOR SHALL SUBMIT AN ELECTRONIC COPY OF SHOP DRAWINGS FOR ALL PLUMBING EQUIPMENT, FIXTURES AND PIPING MATERIALS USED ON

> 1.13 CONTRACTOR SHALL MAINTAIN PREMISES IN CLEAN CONDITION AT END OF EACH DAY AND THOROUGHLY CLEAN UP AT END OF CONSTRUCTION.

THIS PROJECT.

PIPE HANGERS. PIPING ON ROOF TO BE SUPPORTED WITH SUPPORTS AS MANUFACTURED BY C-PORT (I-866-444-0009) PROVIDE SWAY BRACING ON ALL OVERHEAD WATER PIPING AS REQUIRED.

CONSTRUCTION DOCUMENTS. HE SHALL ALSO MAKE A CAREFUL EXAMINATION 2.03 ALL JOINTS IN COPPER TUBING SHALL BE MADE WITH APPROVED COPPER FITTINGS. PIPE SHALL BE CUT SQUARELY AND REAMED TO ITS FULL INNER DIAMETER. JOINTS SHALL BE PROPERLY FLUXED WITH AN APPROVED TYPE FLUX AND MADE UP WITH APPROVED SOLDER. SOLDERS AND FLUXES WITH A LEAD CONTENT WHICH EXCEEDS TWO-TENTHS (0.20) OF (I) PERCENT ARE PROHIBITED IN POTABLE WATER PIPING SYSTEMS.

> 2.04 ANY PIPING EXPOSED IN FIRE WALLS, EXPOSED IN RETURN AIR PLENUM OR EXPOSED TO OUTSIDE ELEMENTS SHALL BE CAST IRON OR COPPER, WHERE REQUIRED, PENETRATIONS THRU RATED WALLS MUST BE SEALED WITH FIRE STOPS CONFORMING TO LATEST I.B.C.

2.05 ALL UNDER GROUND WASTE PIPES SHALL HAVE A GREEN #18 INSULATED TRACER WIRE ATTACHED TO IT AT 8' O.C. AND SHALL HAVE 12" OF TRACER WIRE SECURELY ATTACHED TO IT AT 8' O.C. AND SHALL HAVE 12" OF TRACER WIRE ACCESSIBLE ABOVE GRADE AT THE CLEANOUT AND BE SECURELY ATTACHED AT THAT POINT.

2.01 PROVIDE DIELECTRIC UNIONS AT CONNECTION TO A/C UNITS, & WATER

COLD WATER PIPING IN AREAS WHERE PIPE MIGHT BE SUBJECT TO FREEZING SHALL BE INSULATED. INSULATION SHALL BE 1/2" THICK ON 1/2" PIPE AND I"THICK ON 3/4"PIPE AND LARGER. PROVIDE METAL JACKET IN AREAS SUBJECT TO UV RAYS.

FOR AUTOMATIC-CIRCULATING HOT WATER SYSTEMS, HOT WATER (ABOVE & BELOW GRADE) SHALL BE INSULATED WITH I" THICK INSULATION. INSULATION CONDUCTIVITY SHALL NOT EXCEED 0.27 Btv PER

PIPE INSULATION SHALL BE NON-COMPRESSIBLE TYPE HARD SECTION AT ALL HANGERS AND ANY OTHER PLACE WHERE REQUIRED. INSULATION SHALL MEET IECC SECTION 404.5 REQUIREMENTS.

2.09 ALL WASTE, VENT, DRAINAGE AND WATER PIPING SHALL BE TESTED PER I.P.C. BEFORE BEING CONCEALED IN ANY WAY. ALL JOINTS SHALL BE MADE DRIPTIGHT BEFORE BEING CONCEALED.

2.10 G.C.O & W.C.O. & F.C.O. (GRADE, WALL & FLOOR CLEAN OUTS) EXTERIOR SURFACED AREAS: ROUND COATED CAST IRON BODY WITH CAST IRON NON-SKID COVER AND PLUG; MODEL 4225 MANUFACTURED BY SMITH.

INTERIOR FINISHED FLOOR AREAS: COATED CAST IRON BODY WITH ROUND NICKEL BRONZE SCORIATED COVER; MODEL 4020 MANUFACTURED BY SMITH.

INTERIOR FINISHED WALL AREAS: LINE TYPE WITH COATED CAST IRON BODY AND CAST IRON LEAD SEAL PLUG, AND ROUND STAINLESS STEEL ACCESS COVER SECURED WITH MACHINE SCREW; MODEL 4402 MANUFACTURED BY SMITH.

| PIPE MATERIAL SCHEDULE | | | | | | | | | |
|---|---------------|--------------------------------|--|--|--|--|--|--|--|
| PIPING SYSTEM | ABBREVIATION | PIPING MATERIAL | | | | | | | |
| SANITARY DRAINAGE & VENT (ABOVE & BELOW GRADE) | 5/V | HUBLESS CAST IRON, ABS, OR PVC | | | | | | | |
| POTABLE WATER ABOVE GRADE | CW, HW OR HWR | TYPE L HARD DRAWN COPPER | | | | | | | |
| CONDENSATE DRAIN - I" & SMALLER | CD | TYPE M HARD DRAWN COPPER | | | | | | | |
| INDIRECT DRAIN - I" & LARGER | ID | TYPE M HARD DRAWN COPPER | | | | | | | |

REFER TO SPECIFICATIONS FOR FITTINGS, INSTALLATION REQUIREMENTS AND FURTHER INFORMATION.

NO PLASTIC (ABS, OR PVC) PIPING TO BE ALLOWED IN RETURN AIR PLENUM. WASTE PIPING 2"& SMALLER TO SLOPE AT 1/4 IN./ FT., 3" & LARGER TO SLOPE # 1/8" IN./FT/ U.N.O.

| | | | PL | .UMB | ING | FIX: | TUR | ES S | SCHE | EDUL | E A | ND | SI | PEC | CIFICATIONS | |
|--------|--|-----------|---------|----------------|-----|---------------|----------|----------------|----------------|-------------|---------------------|--------|------|------|---|---------|
| | RESIDENTIAL FIXTURES | | | FIXTURE ITS | | XTURE IITS | WASTE UN | FIXTURE ITS | | FIXTURE | RE CONNECTION SIZES | | | | | |
| MARK | EQUIPMENT | QTY | FU | TOTAL FU | FU | TOTAL FU | FU | TOTAL FU | WASTE RISER | TRAP ARM | MCO SIZE | ٧ | CM | HM | FIXTURE NOTES | REMARKS |
| | FULL BATHROOM GROUP | 8 | 3.6 | 28.8 | 1.5 | 12.00 | 5 | 40 | | | | | | | | |
| R-I | LAVATORY (COUNTER MOUNTED) | - | - | - | - | - | - | - | 2" | I-I/2" | 2" | I-I/2" | 1/2" | 1/2" | OWNER SPECIFIED, AND CONTRACTOR INSTALLED | 1. |
| R-2 | WATER CLOSET (FLOOR MOUNTED FLUSH TANK) | ı | - | - | - | - | - | - | 3" | 3" | - | 2" | 1/2" | - | OWNER SPECIFIED, AND CONTRACTOR INSTALLED | I. |
| R-3 | SHOWER/TUB | - | - | - | - | - | _ | - | 2" | I-I/2" | _ | I-I/2" | 1/2" | 1/2" | OWNER SPECIFIED, AND CONTRACTOR INSTALLED | I, |
| | KITCHEN GROUP | 4 | 2.5 | 10.0 | 1,9 | 7.60 | 4 | 16 | | | | | | | | |
| R-4 | KITCHEN SINK (2 COMP COUNTER MOUNTED) | - | - | - | - | - | - | - | 2" | 2" | 2" | 1-1/2" | 1/2" | 1/2" | OWNER SPECIFIED, AND CONTRACTOR INSTALLED | 1.3. |
| R-5 | DISHWASHER | - | - | - | - | - | - | - | I-I/2"ID | - | - | - | - | 1/2" | OWNER SPECIFIED, AND CONTRACTOR INSTALLED | 1.2. |
| R-6 | REFRIGERATOR | 4 | .5 | 2.0 | - | - | - | - | - | - | _ | - | 1/4" | - | OWNER SPECIFIED, AND CONTRACTOR INSTALLED | 1.2. |
| R-7 | WASHING MACHINE | 4 | 4 | 16 | 3 | 12 | 3 | 12 | 3" | 3" | 3" | 2" | 3/4" | 3/4" | OWNER SPECIFIED, AND CONTRACTOR INSTALLED | 1.2. |
| HB-I | HOSE BIBB | I | 2.5 | 2.5 | - | - | _ | - | - | - | - | - | 3/4" | - | WOODFORD MODEL 21 BRASS WALL FAUCET W/ VACUUM BREAKER | 1. |
| HB-I | HOSE BIBB | 3 | ı | 3 | - | - | _ | - | - | - | - | - | 3/4" | - | WOODFORD MODEL 21 BRASS WALL FAUCET W/ VACUUM BREAKER | I. |
| | NEW | I FIXTURE | S TOTAL | 62.30 | | 31.60 | | 68.00 | | | | | | | | |
| DEMADE | | | | 1 | | 1 | 1 | 1 | 1 | I | 1 | 1 | ı | - | | |

CONTRACTOR TO PROVIDE ALL NECESSARY PARTS FOR A COMPLETE INSTALLATION.

SHALL BE THIRD PARTY LISTED. REFERENCE SECTIONS 303.4 & 402, IPC2018.

| PROVIDE 1/2 HP | BADGER 5 CONTINUOUS FEED GARBAGE DISPOSAL. | |
|----------------|--|--|

| | | | | | WATE | ER HE | ATE | RSY | STEM | SCH | EDULE | | | | | |
|-----------------------------------|---|---------|----------------------|------------------------|----------------|------------|---------------------|---------|--------------------|------------|-----------------------------|-----------|-----------------|-----------|----------|-----------------------|
| | ELETRIC WATER HEATER (WH) RECIRCULATING PUMP (RCP) | | | | | | EXPANSION TANK (ET) | | | | | | | | | |
| MARK | MFR | MODEL | STORAGE (GALLONS) | DIMENSIONS DIAM/HGT | RECOVERY | HTG. ELEM. | ELEC | WEIGHT | MFR | MODEL NO. | ELEC | HEAD/GPM | MFR | MODEL NO. | CAPACITY | MAX ACCEPT. FACTOR |
| MH-(1-4) RCP-(1-4) ET-(1-4) | A.O. SMITH | ENLB-40 | 38 | 23"/32" | 31 <i>GP</i> H | 4.5 KW | 240\/\0 | II& LBS | GRUNDFOS ALPHA2 | 15-555F/LC | 115V/ Φ 0.65 AMPS | 19 FT/ 21 | AMTR <i>O</i> L | ST-5 | 2.0 GAL | 0.9 |

| WAT | ER PI | PE SI | ZING |
|--------------|--------------|---------------|-------------|
| PIPE SIZE | F.U. TANK | F.U. FLUSH | <i>G</i> PM |
| 1/2" | 2 | - | 2 |
| 3/4" | 5 | - | 5 |
| l" | 16 | - | 12 |
| I-I/4" | 30 | - | 20 |
| I-I/2" | 57 | 17 | 32 |
| 2" | 210 | 90 | 65 |

A. PER SECTION 604.I, OF THE

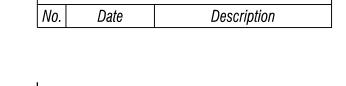
| | INTERNATIONAL PLUMBING CODE 2018, |
|----|---------------------------------------|
| | SIZED PER AN ACCEPTED ENGINEERING |
| | PRACTICE. |
| B. | IF PEX PIPE USED, ALL PIPE SIZES SHAL |
| | INCREASE BY ONE STANDARD SIZE. |

| WATER CAL | .CUL | ATIONS | | |
|--|-------------|-----------------|--------------|-----|
| TOTAL WATER DEMAND | | 62 FU'S = | 34 | GPM |
| WATER PIPE S | IZE CRITER | RIA | | |
| AVAIL. PRESS. FROM WATER MAIN IN STREET: | | | 38 | PSI |
| PRESS. LOSS AT NEW WATER METER | 1" | MTR SIZE | 3 | PSI |
| AVAIL. PRESSURE AFTER WATER METER: | | | 35.0 | PSI |
| PRESS. REGULATOR (SET PRESS. TO 78 MAX PSI): | | | 0.0 | PSI |
| AVAIL. PRESSURE TO BLD'G: | | | 35. <i>O</i> | PSI |
| PRESS. REQ'D AT FURTHEST FIXTURE: | | | 20.0 | PSI |
| PRESS. LOSS IN ELEV. | 0.43 | X 10 = | 4.30 | PSI |
| PRESSURE AVAILABLE FOR PIPE LOSSES: | | | 10.7 | PSI |
| DEVELOPED LENGTH OF PIPE FROM: STREET MAIN | TO FURTHE | ST FIXTURE | | |
| | <i>2</i> 35 | FT | | |
| | 235.00 | x 25% fittings= | 293.8 | FT |
| PIPE LOSS CA | ALCULATIC | N | | |
| 10.7 DCI | | | | |



3.64 PSI/IOO FT OF PIPE





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Revision Schedule

and other information on the drawings are for the purposes of this project and shall not be used otherwise without the expressed written permission of GGV Designs,PLLC. Drawn: 04/15/2020 Date: Scale: 1/4" = 1'-0"2019.53 Job:

TITLE: PLUMBING

MECHANICAL ENGINEERING PROJECT NO. 20247 P: (520) 731-2060 www.phmech.com F: (520) 731-2061

(ALLOWABLE PRESSURE LOSS PER

IOO FT. OF PIPE)

GGV Designs, PLLC

G

1. SMOKE DETECTORS (S.D.) SHALL BE PROVIDED TO PROTECT EACH SEPARATE SLEEPING AREA AND BE A MINIMUM OF 3'-0" FROM DUCT OPENING. PROVIDE 177CD STROBES WITH SMOKE DETECTORS FOR ACCESSIBLE UNITS.

2. SMOKE DETECTORS SHALL BE PERMANENTLY WIRED AND INTERCONNECTED AND PROVIDED WITH BATTERY BACK-UP.

3. WHERE THE HIGHEST POINT OF A CEILING IN A ROOM THAT OPENS TO THE HALLWAY SERVING THE BEDROOMS EXCEEDS THAT OF THE OPENING INTO THE HALLWAY BE 24 INCHES OR MORE, SMOKE DETECTORS SHALL BE INSTALLED IN THE HALLWAY AND IN THE ADJACENT ROOM WITHIN 12" FROM THE HIGHEST POINT OF THE CEILING.

4. SMOKE DETECTORS INTERCONNECTED SHALL BE INSTALLED WITHIN EACH DWELLING UNIT BEFORE APPROVAL BY THE FIRE DEPARTMENT.

5. FIRE ALARM HORNS WITHIN EACH DWELLING UNIT SHALL BE A LOW FREQUENCY SOUNDER PER NFPA-72 REQUIREMENTS.

HANDICAP UNIT NOTE:

1. WALL SWITCH, EXHAUST HOOD, ACCESSIBLE UNITS: IN ACCESSIBLE UNITS, AS REQUIRED BY UNIFORM FEDERAL ACCESSIBLITY STANDARDS (UFAS), PLEASE SHOW KITCHEN EXHAUST FAN AND LIGHT TO BE SWITCHED ON FRONT OF CABINETS OR ON A WALL NOT REQUIRING REACH OVER BASE CABINETS.

ARC FAULT NOTE:

ALL 120 VOLT, SINGLE PHASE, 15 AND 20 AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT PER 2017 N.E.C. 210-12.

UNIT GENERAL NOTES:

1. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED AS REQUIRED BY THE 2018 I.B.C. ALL RATED ASSEMBLIES SHALL BE ACCOMPANIED WITH TEST DATA AND SHALL BE SUBMITTED FOR REVIEW.

2. ALL 1st FLOOR UNITS OF ALL BUILDINGS SHALL CONFORM TO ACCESSIBILITY AND ADAPTABILITY REQUIREMENTS OF CHAPTER 11 OF THE 2012 I.B.C. & ANSI STANDARDS.

3. 1st FLOOR UNITS LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTAT AND OTHER ENVIRONMENTAL CONTROLS SHALL HAVE OPERABLE PARTS OF THE CONTROLS LOCATED NO HIGHER THAN 48" A.F.F., AND NO LOWER THAN 15" A.F.F. IF THE REACH IS OVER AN OBSTRUCTION BETWEEN 20" AND 25" IN DEPTH, THE MAXIMUM HEIGHT IS REDUCED TO 44" A.F.F. FOR FORWARD APPROACH, OR 46" FOR SIDE APPROACH, PROVIDED THE OBSTRUCTION IS NO MORE THAN 24" IN DEPTH. OBSTRUCTIONS SHALL NOT EXTEND MORE THAN 25" FROM THE WALL BENEATH A CONTROL.

4. ALL OUTLETS, LIGHTS, ETC. ON COMMON WALLS BETWEEN TWO UNITS SHALL BE SEPARATE BOXES AND OFFSET 24" MINIMUM. WHEN SPACING IS NOT POSSIBLE, CONTRACTOR SHALL INSTALL AN U.L. LISTED APPROVED BOX FOR INSTALLATION IN A 2 HOUR RATED WALL WITH AN OFFSET OF 3" MINIMUM. SEE GENERAL NOTE #18 ON SHEET E5.5 FOR SPECIFICATIONS.

5. HEIGHT OF ALL RECEPTACLES AT COUNTER, SHELVES, ETC. SHALL BE VERIFIED WITH OWNER BEFORE ROUGH-IN. PROVIDE GFCI OUTLETS, FOR ALL COUNTER RECEPTACLES.

6. ALL UNITS SHALL BE WIRED WITH THREE NETWORKS BACK TO A

- CENTRAL LOCATION. A) A NETWORK FOR PHONE USING CAT-5 WIRE.
- B) A NETWORK FOR TELEVISION USING COAX CABLE. C) A NETWORK FOR DATA USING CAT-5 WIRE.

7. KITCHEN AND BATHROOM RECEPTACLES MOUNTED IN BACKSPLASHES NOT TO EXCEED 46" A.F.F.

8. IN ALL AREAS SPECIFIED IN 210.52, ALL 125-VOLT, 15 AND 20 AMPERE RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES

KEYED NOTES:

- (1) ALL OUTLETS, LIGHTS, ETC. ON COMMON WALLS BETWEEN TWO UNITS SHALL BE SEPARATE BOXES AND OFFSET 24" MINIMUM. WHEN SPACING IS NOT POSSIBLE, CONTRACTOR SHALL INSTALL AN U.L. LISTED APPROVED BOX FOR INSTALLATION IN A 2 HOUR RATED WALL WITH AN OFFSET OF 3" MINIMUM. SEE GENERAL NOTE #18 ON SHEET E5.5 FOR SPECIFICATIONS. (TYPICAL)
- (2) HEIGHT OF ALL RECEPTACLES AT COUNTER, SHELVES, ETC. SHALL BE VERIFIED WITH OWNER BEFORE ROUGH-IN. PROVIDE GFCI OUTLETS FOR ALL COUNTER RECEPTACLES.
- (3) DUPLEX RECEPTACLE, HALF-SWITCHED FOR DISPOSAL; UNSWITCHED OUTLET FOR DISHWASHER, BELOW COUNTER.
- (4) RANGE/OVEN OUTLET. WIRE WITH 4/C. #8 CU. NMC CABLE (2) PHASE CONDUCTORS, (1) NEUTRAL & (1) INSULATED BOND. CONTRACTOR SHALL REMOVE THE BONDING STRAP BETWEEN THE NEUTRAL AND THE EQUIPMENT GROUND AT THE EQUIPMENT PER N.E.C. 250.140.
- (5) OUTLET AND FINAL CONNECTION TO MICROWAVE OVEN/EXHAUST HOOD COMBO. COORDINATE LOCATION WITH MECHANICAL SO THAT DEVICE ISN'T BEHIND EXHAUST VENT.
- 6 FINAL CONNECTION TO WATER HEATER. WIRE WITH 2"C. #10 CU. NMC CABLE WITH BOND.
- (7) TELEVISION CABLE OUTLET. PROVIDE WITH COAX CABLE, 75 OHM OUTLET. (TYPICAL).
- (8) SMOKE DETECTOR, SELF-CONTAINED, AC/DC, 120V., 10, U.L. LISTED. VERIFY MOUNTING HEIGHT WITH ARCHITECT. LOCATE 3 FEET MINIMUM FROM A/C DUCT OPENING. OUTLETS SHALL HAVE BATTERY BACK-UP PER I.B.C. 2018 SECTION 907.2.10.2. (TYPICAL).
- (9) TYPICAL TENANT ELECTRICAL PANEL 'A'. THE 1 HOUR FIRE RATING SHALL BE MAINTAINED WHEN LOCATED IN A 1 HOUR FIRE

- (10) J-BOX FLUSH MOUNTED CEILING IN FOR CEILING FAN. J-BOX SHALL BE U.L. LISTED FOR CEILING FAN APPLICATIONS AND SHALL BE INSTALLED PER N.E.C. 314.23, 314.27(D) AND 422.18. PROVIDE WHITE COVER PLATE WHEN FAN IS NOT SHOWN. (TYPICAL)
- (11) DRYER OUTLET. 120/240V., 1ø, 30 AMP AT 36" A.F.F. WIRE WITH 4/C. #10 CU. (2) PHASE CONDUCTORS, (1) NEUTRAL & (1) INSULATED BOND. CONTRACTOR SHALL PROVIDE A 4 WIRE RECEPTACLE AND CORD. CONTRACTOR SHALL REMOVE THE BONDING STRAP BETWEEN THE NEUTRAL AND THE EQUIPMENT GROUND AT THE EQUIPMENT PER N.E.C. 250.140.
- (12) WASHER OUTLET. 120V., 1ø, 20 AMP AT 36" A.F.F.
- (13) FOR THIS SET OF DRAWINGS THIS WILL BE CONSIDERED AS UNIT
- (14) FOR THIS SET OF DRAWINGS THIS WILL BE CONSIDERED AS UNIT 'B'. SEE UNIT 'A' FOR LAYOUT OF POWER AND LIGHTING FOR THIS
- (15) FOR THIS SET OF DRAWINGS THIS WILL BE CONSIDERED AS UNIT C'. SEE UNIT 'A' FOR LAYOUT OF POWER AND LIGHTING FOR THIS
- (16) FOR THIS SET OF DRAWINGS THIS WILL BE CONSIDERED AS UNIT 'D'. SEE UNIT 'A' FOR LAYOUT OF POWER AND LIGHTING FOR THIS
- (17) LOCATION OF NEW MULTI-METER SERVICE ENTRANCE SECTION.
- (18) LOCATION OF NEW PANEL 'H'.
- (19) LIGHTING CONTACTOR AND TIME CLOCK TO BE MOUNTED AT A MINIMUM OF 11 FEET FROM THE NEW SES.
- (20) TYPICAL TENANT ELECTRICAL PANEL 'B'. THE 1 HOUR FIRE

- (21) TYPICAL TENANT ELECTRICAL PANEL 'C'. THE 1 HOUR FIRE RATING SHALL BE MAINTAINED WHEN LOCATED IN A 1 HOUR FIRE
- (22) TYPICAL TENANT ELECTRICAL PANEL 'D'. THE 1 HOUR FIRE RATING SHALL BE MAINTAINED WHEN LOCATED IN A 1 HOUR FIRE

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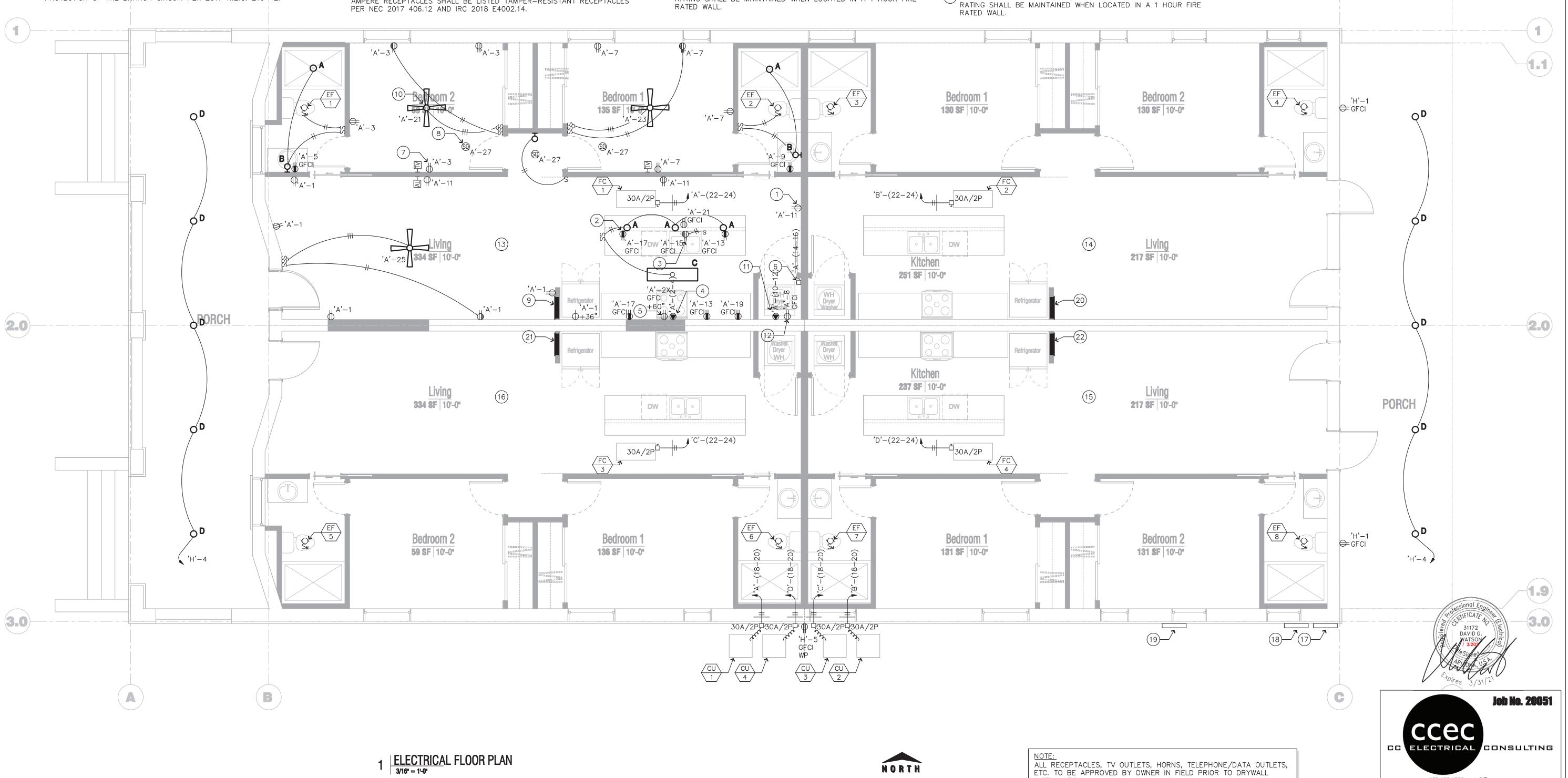
5th

S 6

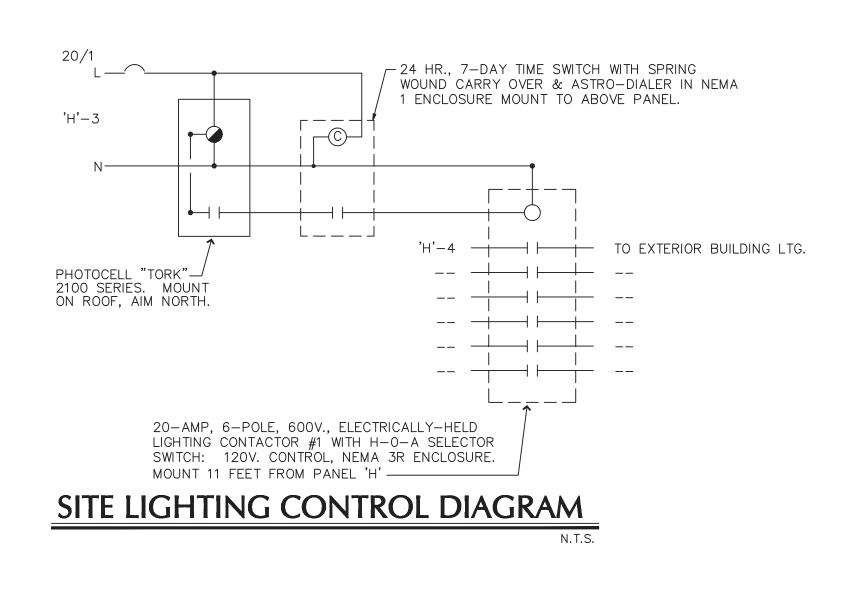
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Revision Schedule These drawings are the instruments of service and the property of GGV Designs,PLLC. All desig and other information on the drawings are for the purposes of this project and shall not be used Drawn:
Date:
Scale:
Job: 04/15/2020 1/4" = 1'-0" 2019.53 LIGHTING + POWER FLOOR PLAN

p: 602.400.1792 • jeff@ccecaz.com 18240 N. 21st Steet, Lot #95, Phoenix, AZ 85022



| | | | | | SHC | DT C | IDCIII | T CALC | III ATIC | JNIC | | | | | | |
|--------|--------------------|------|--------|----------|------------|--------|---------|-------------|------------|-----------|-----|--------|--------|------------|----------|------------|
| | | | | | 3110 | | IIXCOI | II CALC | OLATIC | JIVO | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | SOURCE | | # OF | | | METAL | | | | | | | |
| FAULT | PANEL | LOAD | LENGTH | SHORT | "1" OR "3" | CDTRS/ | "CU" OR | CDR SIZE | CONDUIT? | "C" VALUE | V | f | m | SOURCE | MOTOR | TOTAL |
| DESIG. | | AMPS | (FT.) | CKT AMPS | PHASE? | PHASE | "AL" | (awg/kcmil) | "Y" OR "N" | | | | | Isc (amps) | CONTRIB. | lsc (amps) |
| | SES | 400 | | 18,100 | 1 | | | | | | 240 | | | 18100 | 0 | 18,100 |
| F1 | LIGHTING CONTACTOR | 60 | 11 | 18,100 | 1 | 1 | CU | #12 | Y | 617 | 240 | 2.6891 | 0.2711 | 4,906 | 0 | 4,906 |
| F2 | PANEL 'A' | 125 | 66 | 18,100 | 1 | 1 | CU | #1/0 | N | 9317 | 240 | 1.0685 | 0.4834 | 8,750 | 0 | 8,750 |
| F3 | PANEL 'B' | 125 | 34 | 18,100 | 1 | 1 | CU | #1/0 | N | 9317 | 240 | 0.5504 | 0.6450 | 11,674 | 0 | 11,674 |
| F4 | PANEL 'C' | 125 | 35 | 18,100 | 1 | 1 | CU | #1/0 | N | 9317 | 240 | 0.5666 | 0.6383 | 11,554 | 0 | 11,554 |
| F5 | PANEL 'D' | 125 | 65 | 18,100 | 1 | 1 | CU | #1/0 | N | 9317 | 240 | 1.0523 | 0.4873 | 8,819 | 0 | 8,819 |



| | L | OAD | CA | LCU | ATIO | N - NE | WS.E. | .S | | |
|---------------|------------|-------|-------|--------------|---------|---------|---------|-------|---------|-----|
| UNIT TYPE | SQ. FT | QTY | | | | | | | | |
| A, B, C & D | 906 | 4 | | | | | | | | |
| TOTAL UNITS | | 4 | | | | | | | | |
| | | | | GENE | RAL L | OADS | | | | |
| | | | LK | GHTIN | g and | POWER | | | | |
| UNIT TYPE | SQ. FT | | U | NIT Q | TY | LOA | /D | | TOTAL | |
| A, B, C & D | 906 | | Χ | 4 | X | 3 | VA | = | 10,872 | VA |
| | | | | | | | | | | |
| | | | | | | | | | | |
| LOAD DE | SCRIPTIO | V | UN | IITS | QTY | LOA | /D | | TOTAL | |
| SMALL APPLIA | NCE | | 4 | Х | 2 | Х | 1,500 | = | 12,000 | VA |
| STOVE / OVEN | | | 4 | Х | 1 | Χ | 12,100 | = | 48,400 | VA |
| DISHWASHER | | | 4 | Х | 1 | Χ | 1,500 | = | 6,000 | VA |
| REFIGERATOR | | | 4 | Х | 1 | Χ | 720 | = | 2,880 | VA |
| MICROWAVE | | | 4 | Х | 1 | Х | 1,550 | = | 6,200 | VA |
| WASHER | | | 4 | Х | 1 1 | Χ | 1,800 | = | 7,200 | VA |
| DRYER | | | 4 | Х | 1 | Х | 5,000 | = | 20,000 | VA |
| WATER HEATE | R | | 4 | Х | 1 1 | X | 4,500 | = | 18,000 | VA_ |
| | | | | | | | | | | |
| | | | N | | | LOADS | | | | |
| | NIT TYPE | | | UN | IITS | TOTAL | | | TOTAL | |
| A, B, C & D | | | | 4 | X | 5,453 | | = | 21,812 | VA |
| A, B, C & D | FC-1 | | | 4 | X | 3,476 | VA | = | 13,904 | VA |
| | | | | | | | | | | |
| SUB-TOTAL | | | | | | | | = | 167,268 | VA |
| | | | | | | | | | | |
| | | | | | ND VA | | | | | |
| | | | OITAV | NAL E | LECTRI | C CODE | TABLE 2 | 20.84 | | 1 |
| TOTAL NUMBER | | 3 | | | | | | = | 4 | |
| DEMAND FACT | OR OF | | | | | | | = | 45% | |
| | | | | | | | | | | |
| | T | OTAL | LOAD | SER\ | /ICE EN | NTRANCE | SECTIO | | | |
| TOTAL | 24014 4511 | | | | | | | = | 75,271 | VA |
| SUBTOTAL AT 2 | | | | | | | | = | 314 | A |
| PANEL "HOUS | | 05.05 | OT 01 | | | | | = | 6 | A |
| TOTAL SERVIC | E ENIRAN | CE SE | CHO | N LOAL | J: | | | = | 320 | Α |

| LOAD CALCULATION | ON "APT-A" |
|-----------------------------------|-----------------------|
| NEW GENERAL LIGHTING LOAD | NEC 220.82(B |
| 3 VA / SQ. FT. X | 906 SQ. FT. 2718.0 VA |
| APPLIANCE LOAD | NEC 220.82(B |
| 2 SMALL APPLIANCES | 3000.0 VA |
| 1 STOVE | 12100.0 VA |
| 1 REFRIGERATOR | 720.0 VA |
| 1 DISHWASHER/DISPOSAL | 1500.0 VA |
| 1 WASHER | 1800.0 VA |
| 1 DRYER | 5000.0 VA |
| 1 MICROWAVE/HOOD | 1550.0 VA |
| 1 WATER HEATER | 4500.0 VA |
| SUB TOTAL (W/O HVAC) | 32888.0 VA |
| DEMAND (BASED ON TOTAL LOAD) | NEC 220.82(B.),(C.) |
| FIRST 10,000 VA @ 100% | 10000.0 VA |
| REMAINDER @ 40% | 9155.2 VA |
| 1 CU-1 | 5453.0 VA |
| 1 FC-1 | 3476.0 VA |
| NET COMPUTED LOAD: NEC 220.82(A.) | 28084.2 VA |
| AMPS @240V, 1 PHASE | 117.0 A |

KEYED NOTES:

- 1) NEW #4 CU. UFER, #1/0 CU. BOND TO BUILDING STEEL, METALLIC PIPING SYSTEMS AND UNBROKEN TO ALL OTHER GROUNDING ELECTRODE ON BUILDING PER N.E.C. 250-24, 250-58, 800-40 AND 820-40.
- 2) NEW 4" PVC CONDUITS WITH (2) PARALLEL SETS (3) #250 KCMIL AL., (1) #1/0 CU. GND.
- 3 NEW (2) 4" PVC CONDUITS PER T.E.P. REQUIREMENTS FOR PRIMARY.
- (4) NEW 3 #1/0 CU., 1 #6 CU. GND., 1-1/2"C.

LIGHT FIXTURE SCHEDULE

| ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT * | | | | | | | | | |
|--|-----------------|------|----|-----------------|--------------------------------------|-----------------------------------|--|--|--|
| EQUIP. NO. | VOLT./ PHASE | FLA | НР | HEATING (KW) | WIRE / CONDUIT SIZE | REMARKS | | | |
| CU-1 THRU CU-4 | 240/1ø | 14.8 | _ | _ | (2) #10 CU., (1) #10 CU. GND., 3/4"C | | | | |
| FC-1 THRU FC-4 | 240/1ø | 22.7 | _ | _ | (2) #10 CU., (1) #10 CU. GND., 3/4"C | | | | |
| EF-1 THRU EF-8 | 120 | 0.4 | _ | _ | (2) #12 CU., (1) #12 CU. GND., 3/4"C | PROVIDE WITH SEPARATE WALL SWITCH | | | |
| _ | _ | _ | _ | _ | | | | | |

* VERIFY ELECTRICAL CHARACTERISTICS (ie: KW, FLA, VOLTAGE, etc.) OF ACTUAL SUPPLIED EQUIPMENT PRIOR TO ORDERING ANY ELECTRICAL DEVICES, etc. SIZE FUSES AND DISCONNECT SWITCHES PER SUPPLIED MECHANICAL EQUIPMENT MANUFACTURER'S SPECIFICATIONS.

| MARK | DESCRIPTION | MFR. CATALOG # | | VOLT. | LAMPS # TYPE | | REMARKS | |
|------|-----------------------------------|----------------|------------------------------------|-------|--------------|---|---------------------------|--|
| Α | 6" LED SURFACE MOUNTED FIXTURE | RAYON LIGHTING | RJL56 16 1 30K W | 120 | | LED'S W/FIXTURE 1,090 LUMENS 16.0W, 3,000°K | CEILING MOUNTED TO J-BOX | |
| В | 24" LED VANITY FIXTURE | LITHONIA | FMVCSLS 24IN MVOLT 35K 90CRI BN | 120 | | LED'S W/FIXTURE 1,550 LUMENS 27.0W, 3,500°K | MOUNTED ABOVE MIRROR | |
| С | LED LITEPUFF SURFACE MOUNTED . | LITHONIA | FMLL 9 30830 | 120 | | LED'S W/FIXTURE 3,080 LUMENS 35.0W, 3,000°K | TO HARD LID | |
| D | 6" OPEN LED DOWNLIGHT | LITHONIA | LDN6 30/20 LOC WR LD 120 SF | 120 | | LED'S W/FIXTURE 2,006 LUMENS 22.5W, 3,000°K | FLUSH MOUNTED TO HARD LID | |

NEW FULLY 10K RATED PANEL (TYPICAL FOR PANEL 'D')

| | PANEL A 125 AMP 12 | 0/240V., 1ø, 3' | W MAIN | M.L.O. NEMA 1 SURF MTG |
|-------------|----------------------------------|-----------------|--|--------------------------------------|
| | LOCATION SEE PLAN | TYPE SEE | C.B. NOTE | BREAKER RATING 10,000 AIC |
| | USE/AREA SERVED | CB No L1 | OAD L2 | No CB USE/AREA SERVED |
| \triangle | REC - LIVING ROOM | 20 1 - | | 2 50 REC - OVEN |
| \triangle | REC - BEDROOM #2 | 20 3 | | 4 2 |
| | REC - BATHROOM #2 | 20 5 - | | 6 20 1 REC - REFRIGERATOR |
| \triangle | REC - BEDROOM #1 | 20 7 | | 8 20 1 REC - WASHER |
| lack race | REC - BATHROOM #1 | 20 9 - | | 10 30 REC - DRYER |
| \triangle | REC - LIVING/KITCHEN | 20 11 | | T / I |
| lack race | REC - KITCHEN COUNTER | 20 13 – | | 25 WATER HEATER |
| lack race | REC - DISPOSAL/DISHW. | 20 15 | | 16 2 |
| | REC - KITCHEN COUNTER | 20 17 | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 30 CU-1 (CU-4) |
| lack race | REC - KITCHEN COUNTER | 20 19 | | 20 2.5 TONS |
| \triangle | CEILING FAN | 20 21 - | | 30/ FC-1 (FC-4) |
| \triangle | CEILING FAN | 20 23 | | 24 2 |
| \triangle | CEILING FAN | 20 25 – | | BUSSED SPACE |
| \triangle | SMOKE DETECTORS | 20 27 | | BUSSED SPACE |
| | BUSSED SPACE | 29 – | | 30 BUSSED SPACE |

NEW FULLY 22K RATED PANEL (TYPICAL 'C')

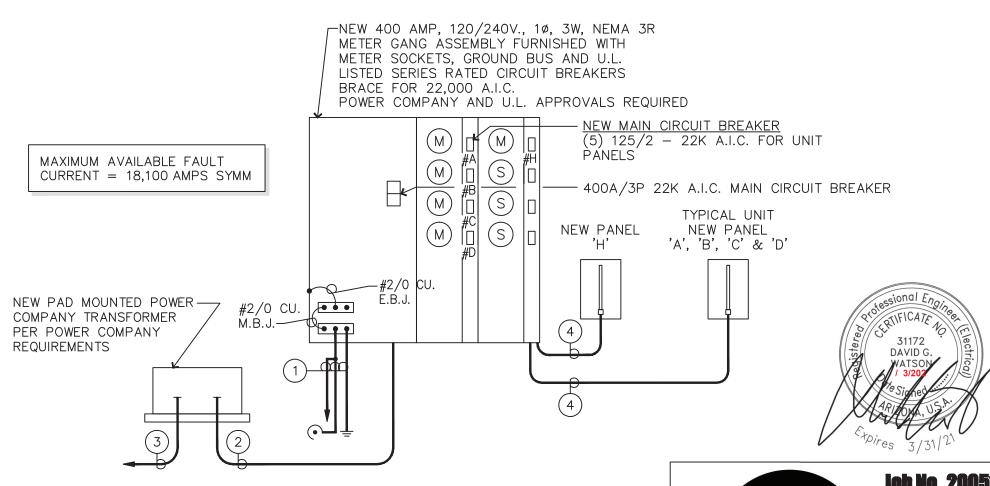
| PANEL B 125 AMP 120 | 0/240\ | √., 1ø, 3W | MAIN | M.L.O. | NEMA 1 SURFMTG |
|-----------------------------------|--------------------------------------|--|----------------|--------|--------------------|
| LOCATION SEE PLAN | LOCATION SEE PLAN TYPE SEE C.B. NOTE | | | | |
| USE/AREA SERVED | CB No | L0 L1 | AD L2 | No CB | USE/AREA SERVED |
| REC - LIVING ROOM | 20 1 | | | 2 50/ | REC - OVEN |
| REC - BEDROOM #2 | 20 3 | | | 4 / 2 | |
| REC - BATHROOM #2 | 20 5 | _ | | 6 20 | REC - REFRIGERATOR |
| REC - BEDROOM #1 | 20 7 | | | 8 20 | REC - WASHER |
| REC - BATHROOM #1 | 20 9 | | | 10 30 | REC - DRYER |
| REC - LIVING/KITCHEN | 20 11 | | - | 12 / 2 | |
| REC - KITCHEN COUNTER | 20 13 | = - - - - - - - - - - - - - - - - - - - | 4000 | 14 25 | WATER HEATER |
| REC - DISPOSAL/DISHW. | 20 15 | | | 16 2 | |
| REC - KITCHEN COUNTER | 20 17 | -5K/V) | ~' | 18 30 | CU-2 (CU-3) |
| REC - KITCHEN COUNTER | 20 19 | | _ | 20 / 2 | 2.5 TONS |
| CEILING FAN | 20 21 | | | 22 30 | FC-2 (FC-3) |
| CEILING FAN | 20 23 | | | 24 2 | |
| CEILING FAN | 20 25 | | | 26 | BUSSED SPACE |
| SMOKE DETECTORS | 20 27 | | _ | 28 | BUSSED SPACE |
| BUSSED SPACE | 29 | | | 30 | BUSSED SPACE |

NEW FULLY RATED PANEL

| NEW FULLY RATED PANEL | | | | |
|----------------------------------|-------|-------------|------------|---------------------------------------|
| PANEL H 125 AMP 12 | 0/240 |)V., 1ø, 3W | MAIN | M.L.O. NEMA 3R SURF MTG |
| LOCATION SEE DRAWING | } | TYPE SEE C | .B. NOTE | BREAKER RATING 22,000 AIC |
| USE/AREA SERVED | CB N | O L1 | AD L2 | No CB USE/AREA SERVED |
| 11 | 20 1 | 540 | | BUSSED SPACE |
| LTG - TIME CLOCK/CONT. | 20/1 | | 200 180 | 4 20 LTG - FRNT/BACK PORCH |
| REC - MECHANCAIL | 5 | 180 | | BUSSED SPACE |
| BUSSED SPACE | 7 | | | BUSSED SPACE |
| BUSSED SPACE | 9 | _ | | BUSSED SPACE |
| BUSSED SPACE | 11 | | | BUSSED SPACE |
| TOTAL (CONNECTED) | | 720 | 380 | |
| 25 % CONTINUOUS | | _ | 95 | |
| | | _ | - | |
| TOTAL (CODE) | | 720 | 475 | 720 VA / 120V. = 6.0 A |

PANEL SCHEDULE NOTES

- ▲ INDICATES GFCI CIRCUIT BREAKER.
- △ INDICATES A.F.C.I. CIRCUIT BREAKER PROTECTING FAMILY ROOMS, DINING ROOMS. LIVING ROOMS, PARLORS. LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS OR SIMILAR ROOMS OR AREAS. (ARC—FAULT CIRCUIT INTERRUPTERS) PER 2017 N.E.C. 210—12.
- * INDICATES CONTINUOUS LOAD TAKEN @ 125% PER N.E.C.



ONE-LINE DIAGRAM - 4 UNIT S.E.S.

- 1. ALL EQUIPMENT & INSTALLATIONS ARE NEW UNLESS NOTED AS 'EXISTING'.
- 2. ELECTRICAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO ANY WORK.



GGV Designs, PLLC 520.204.2162 | 2536 E. 6th Street; Tucson, Az 85716

9 Apartments

These diswings are the instruments of service and the property of GGV Designs, PLLC. All designs and other information on the drawings are for the purposes of this project and shall not be used otherwise without the expressed written parmission of GGV Designs, PLLC.

Drawn:

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OA/15/2020

Scale:

Job:

ONE—LINE DIAGRAM

AND SCHEDULES

E2.0

WALL MOUNTED LIGHT FIXTURE

☐ ☐ 4' STRIP FIXTURE

H♦ ♦ EXIT SIGN - SEE LIGHT FIXTURE SCHEDULE

SURFACE-MOUNT EMERGENCY LIGHTING BATTERY PACK-SINGLE OR DOUBLE HEAD- SEE LIGHT FIXTURE SCHEDULE

RECESSED EMERGENCY LIGHTING BATTERY PACK-SINGLE OR DOUBLE HEAD- SEE LIGHT FIXTURE SCHEDULE

JUNCTION BOX IN ACCESSIBLE LOCATION ABOVE REMOVABLE CEILING W/ FLEXIBLE CONDUIT CONNECTION TO LIGHT FIXTURE

FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT

JUNCTION BOX IN ACCESSIBLE LOCATION

DUPLEX CONVENIENCE RECEPTACLE AT +15" A.F.F. TO BOTTOM OR AS NOTED

FOUR-PLEX CONVENIENCE RECEPTACLE AT +15" A.F.F. TO BOTTOM OR AS NOTED

ISOLATED GROUND RECEPTACLE AT + 15" A.F.F. TO BOTTOM OR AS NOTED

RECEPTACLE (TYPE AS SHOWN) AT + 42" A.F.F.

SPECIAL USE RECEPTACLE. VERIFY NEMA NUMBER AND MOUNTING HEIGHT WITH EQUIPMENT

TOGGLE SWITCH - SINGLE POLE, 3-WAY, 4-WAY AT +42" OR AS NOTED ON PLANS.

SINGLE-POLE, ILLUMINATED HANDEL OR PILOT LIGHT TOGGLE SWITCH AT +42" OR AS NOTED ON PLANS

MOTOR RATED SWITCH WITH THERMAL PROTECTION

MOTOR SPEED CONTROL SWITCH. FURNISHED BY ELECTRICAL CONTRACTOR.

PHOTOCELL - TORK #2100 - MOUNT ON ROOF AND AIM NORTH

TIMESWITCH: TORK 'W' SERIES OR EQUAL

CIRCUIT IN CONDUIT, CONCEALED. HASH MARKS INDICATE QUANTITY OF CONDUCTORS NO HASH MARKS INDICATE TWO CONDUCTORS, PLUS GROUND(S). (NOTE: WIRE AND OR CONDUIT SIZE SHOWN AT HOMERUN IS THE MINIMUM SIZE FOR THE ENTIRE CIRCUIT: #12 A.W.G. CU, 1/2"C. MINIMUM). LONG STROKE(S) INDICATE NEUTRAL CONDUCTOR(S), SHORT STROKES INDICATE PHASE OR SWITCHED CONDUCTORS AND LONG STROKES WITH DOT INDICATE GREEN INSULATED GROUNDING CONDUCTOR(S) TYPICAL EACH ISOLATED GROUND CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AND GROUND WIRE. BOND WIRES ARE NOT SHOWN ON DRAWINGS. BOND WIRES

---- CIRCUIT IN CONDUIT CONCEALED IN FLOOR

CIRCUIT IN CONDUIT CONCEALED IN WALLS OR ABOVE CEILING

HOMERUN TO PANELBOARD OR AS NOTED

PANELBOARD. MOUNT TOP OF PANEL AT + 6'-8". STUB (2) 3/4" E.C. INTO ACCESSIBLE CEILING SPACE ON FLUSH MOUNTED PANELS.

SHALL BE INSULATED CU. SIZED IN ACCORDANCE WITH N.E.C. #250.

MOTOR: SIZE AND RATING AS SHOWN. EF INDICATES 55-WATT, 120V. EXHAUST FAN

A.C. MAGNETIC STARTER BY ELECTRICAL CONTRACTOR. HORSEPOWER, VOLTAGE AND PHASE RATED. NUMBER OF POLES REQUIRED. FURNISH WITH (1) N.O. AUXILLIARY CONTACT (120 V. CONTROL) SINGLE SPEED NON-REVERSING UNLESS OTHERWISE SHOWN ON PLAN

DISCONNECT SWITCH - HORSEPOWER RATED, FUSED, NEMA 3R WHERE OUTSIDE. N.F. INDICATES NON-FUSED. (FUSE PER EQUIPMENT MANUFACTURERS' SPECIFICATIONS.)

MOTOR CONTROLLER - FURNISHED WITH EQUIPMENT

TELEPHONE OUTLET AT +15" TO BOTTOM OR AS NOTED WITH 3/4"C. UP INTO ACCESSIBLE CEILING SPACE UNLESS SHOWN OTHERWISE

DATA OUTLET AT + 15" A.F.F. TO BOTTOM OR AS NOTED. STUB 3/4"C.

INTO ACCESSIBLE CEILING SPACE DATA/TELEPHONE OUTLET AT + 15" A.F.F. TO BOTTOM OR AS NOTED.

STUB 3/4"C. INTO ACCESSIBLE CEILING SPACE

X APPROVED TEMPERATURE SEAL-OFF AND EXPANSION JOINTS AS REQ'D BY ───── N.E.C. ART. #300-7

FLUSH FLOOR FOURPLEX OUTLET AND DATA/TELPHONE OUTLET COMBO WITH BRASS DEVICE PLATE

FLUSH FLOOR DATA RECEPTACLE WITH BRASS COVER PLATE AND 3/4"C. STUBBED TO ABOVE ACCESSIBLE CEILING LOCATION

FLUSH FLOOR TELEPHONE RECEPTACLE WITH BRASS COVER PLATE AND

3/4"C. STUBBED TO ABOVE ACCESSIBLE CEILING LOCATION

FLUSH FLOOR DUPLEX OUTLET WITH BRASS DEVICE PLATE

FLUSH FLOOR FOURPLEX OUTLET WITH BRASS DEVICE PLATE

ISOLATED GROUND RECEPTACLE "HUBBELL" # IG5263 20A, 125V, FLUSH FLOOR WITH BRASS DEVICE PLATE

TELEVISION OUTLET AT + 15" TO BOTTOM OR AS NOTED. STUB 3/4"C

INTO ACCESSIBLE CEILING SPACE DIMMER SWITCH AT + 42" A.F.F. "LUTRON" NP SERIES. SIZE DIMMER FOR

LOAD. TRACK LIGHTING SHALL HAVE "LUTRON" NP2000 DIMMER

A.D.A.—APPROVED FIRE ALARM STROBE

A.D.A.-APPROVED FIRE ALARM HORN/STROBE

A.D.A.—APPROVED FIRE ALARM PULL STATION

A.D.A.—APPROVED SMOKE DETECTOR MOUNTED IN CEILING OR AS INDICATED

CEILING MOUNTED OCCUPANCY SENSOR. LUTRON OR EQUAL.

WEATHER PROOF

ELECTRIC DRINKING FOUNTAIN

S.E.S. SERVICE ENTRANCE SECTION

TELEPHONE MOUNTING BOARD: 4' X 8' X 3/4" PLYWOOD WITH #6 CU. BOND WIRE TO GROUNDING ELECTRODE SYSTEM

TELEPHONE TERMINAL CABINET: 36" W. X 36" H X 6" D 16 GA. WEATHERPROOF HINGED LOCKABLE COVER, 5/8" PLYWOOD BACKBOARD. PROVIDE A #6 CU BOND TO GROUNDING ELECTRODE SYSTEM

GENERAL CONDITIONS The General Provisions of the Contract, including the Conditions of the Contract (General, Supplementary and

other Conditions) and Division 1 — General Requirements as

appropriate, apply to the work specified in this Section.

SCOPE OF WORK

The work included under this section consists of furnishing all materials, equipment, and labor and the performing of all functions, except as otherwise specified herein or shown on the drawings to be performed by others, for the installation and placing into operation of a complete electrical system as specified and shown on the drawings.

GENERAL DESCRIPTION

The work in general shall consist of, but is not necessarily limited to the following.

Furnishing and installing all fixtures with lamps as indicated on the drawings and as specified herein unless

Furnishing and installing all electrical work, panels, service, conduit, wiring, etc., for all outlets and

Furnishing and installing all telephone outlets, conduits with pull strings and telephone mounting boards including conduit from telephone mounting board to the building entrance as indicated on the plan.

Furnishing and installing a complete Fire Alarm system as indicated on plans.

3.1.5 Include \$ hundred dollars) allowance for power and telephone company utility service charges. Difference between actual cost and allowance to be credited or billed to the Owner.

3.1.6 Furnishing and installing all motor starters and control components, not specifically specified to be furnished in accordance with other sections of the specifications.

Furnishing and installing all power and wiring except that which is pre-wired in factory assembled equipment.

Installing all LINE VOLTAGE mechanical control wiring and associated controls which are furnished by the Mechanical Contractor (low voltage control wiring and controls shall be furnished and installed by the Mechanical Contractor).

Painting work as described under other sections of these specifications. Clean and prepare all surfaces ready for painting.

Provide temporary construction power as outlined below. This service shall be maintained throughout the entire job as the work progresses. Provide outlets at convenient points and in sufficient numbers so that no extension cord over 50 feet in length is required to reach any work point. Maintain general lighting in corridors, stairs, basement and other areas not receiving sufficient daylight required for safety. Remove temporary work as rapidly as required for or allowed by installation of permanent work.

3.1.11 Certain items of work by other trades will be necessary for the completion of work under this division. Cooperate with other trades and arrange for these items to be performed in orderly course.

3.1.12 This Contractor shall review the mechanical control requirements as specified and shown on the drawings and shall furnish and install all necessary conduit, wiring, boxes, protective devices, switches, etc., for the completion and proper operation of the system.

3.1.13 Review all drawings and all specifications for each section of work. Unless specifically noted otherwise, herein or elsewhere, furnish and install items of any electrical nature required for completion of work for other trades, whether or not same is shown or noted in this or other sections.

REGULATIONS AND CODES

The Contractor must comply with all state, municipal and federal safety laws, construction codes, ordinances and regulations relating to building and public health and safety. In addition, comply with rules and regulations of the State Fire Protection Code. Fire protection material must bear the Fire Underwriters Laboratories label.

GENERAL REQUIREMENTS

The Contractor shall examine the premises and satisfy himself of existing conditions under which he will be obligated to operate in performing his part of the work or that will in any manner affect the work under the contract. The Contractor shall cooperate with other trades so that the installations of all equipment may be properly coordinated.

All equipment furnished shall fit the space available, with connection, etc., in the required locations and with adequate space for operating and servicing. The drawings are generally diagrammatic and indicate the manner and method of the installation, while the specifications and fixture list denote the type and quality of material and workmanship to be used. Where a conflict exists between the drawings and the specifications, the Contractor shall promptly notify the Architect/Engineer whose decision shall be final. No allowance will be made subsequently in this connection in behalf of the Contractor after award of the contract.

EQUIPMENT AND MATERIAL

All materials furnished under this contract shall be new (except as noted), free from defects of any character, shall conform with the standards of the Underwriters Laboratories, Inc. (U.L.) (or other nationally recognized Laboratory), in every case where such a standard has been established and shall be so labeled. It is the intention of these specifications to indicate a standard of quality for all materials incorporated in this work, and where materials are not specified herein and are required to complete the electrical installation, these materials shall be of first quality for use intended. Manufacturers of similar quality products will be considered unless the specifications or drawings indicate otherwise.

ELECTRICAL SYSTEM SPECIFICATIONS - DIVISION 16000

Materials shall be suitable for intended use and location. Unless otherwise shown use NEMA-1 for interior areas and NEMA-3R for exterior areas.

The Architect/Engineer decision as to equal in grade and quality shall rule and be final for all electrical materials incorporated in this work. Where two or more similar type items are furnished, all shall be of the same manufacturer (e.g., all disconnect switches shall be of the same manufacturer) unless otherwise noted herein or shown on the drawings. All material and installation methods used shall be in accordance with the latest and approved electrical and mechanical engineering practices.

SERVICE ENTRANCE EQUIPMENT

Cutler—Hammer, Siemens/ITE, General Electric

Service entrance equipment shall be in accordance with the requirements of the municipal governing body and serving utility. Shop drawings shall be submitted to the serving utility for written approval before ordering equipment.

Label equipment and each individual overcurrent device per Section 16000.22.

Approved manufacturers are: Sun Valley, Square D,

PANELBOARDS

Each panel shall be provided with door lock and two keys, all keyed alike. Each panel shall be provided with typewritten sheet installed on door identifying the use of each branch circuit. Panels shall have bussing as indicated on the drawings.

8.2 Label equipment per Section 16000.22

8.3 Approved manufacturers are: Square D, Cutler-Hammer, Siemens/ITE, General Electric

STARTERS

9.1 All motor starters shall be furnished under this section of the specifications unless an integral part of equipment or noted as furnished with equipment specified under other sections of these specifications.

Separately mounted motor starters shall be across the-line combination magnetic with 120V coils, fused disconnect contactors, additional auxiliary contact for interlocking of controls. Provide pushbutton or selector switch in cover. Switchboard mounted starters shall be magnetic with 120V coils and additional auxiliary contacts as required for interlocking of controls. Starters shall have an integral control circuit transformer or separate 120V control with control circuit disconnect switch in cover.

Manual starters shall be horsepower, voltage and phase rated with overload protection and green "on" pilot light. Surface mounted unless noted otherwise.

All starters shall have overload protection in all phase lines. Furnish and install the proper size overload heater elements determined from full load nameplate readings on motors and compensation for ambient temperature in all starters whether they be furnished under this Section or other Sections.

9.5 Label per Section 16000.22

Approved manufacturers are: Square D

TRANSFORMERS

10.1 Transformers shall be dry type, with voltage ratings as indicated on plans. Transformers shall be rated for for full load operation at a maximum 150 degree centigrade rise above a 40 degree centigrade ambient or as otherwise noted on drawings. Provide at least (4) 2 1/2 percent taps, two above normal and two below normal and have a sound rating not to exceed NEMA standards. Special "K" factor ratings as noted.

Submit complete transformer data with shop drawings for approval. The data shall include efficiencies, core and copper losses, impedance, regulation and sound level.

Installation of transformers shall be on vibration isolators and all wiring connections with flexible conduit.

Label per Section 16000.22

Approved manufacturers are: ACME, Square D, Jefferson, Cutler-Hammer, Westinghouse, General Electric, or same manufacturer as distribution equipment.

CONDUIT

11.1 Metallic conduits shall be hot dipped galvanized equal to LTV Steel.

Electric metallic tubing (EMT) is permitted for exposed work above 6'-0" A.F.F. or concealed work only. EMT is NOT permitted in the following: (1) in or under concrete, (2) in earth, (3) in grouted walls, (4) exterior of building, (5) with dissimilar metals, (6) where it will be subject to severe physical damage (either during or after installation), (7) in any hazardous (classified location) except as permitted by 502.10, 503.10 and 504.20, (8) without an equipment grounding conductor. Size and provide equipment grounding conductor per Article 250 and increase conduit size if required.

Rigid PVC conduit is permitted only underground or as noted on drawings. Provide rigid steel elbows and risers (NO MINIMUM SIZE). Size and provide equipment grounding conductor per Article 250 and increase conduit size if required.

Rigid galvanized or sheradized steel shall be used for all exposed conduit below 6'-0" A.F.F. or as noted on drawings. Where used in or under concrete or in earth, shall be code approved PVC coated or half lap wrapped with Polyken #900 tape or equal.

Install exposed raceways parallel and perpendicular to nearby surfaces or structural members and follow the surface contours as much as practical.

Run exposed, parallel, or banked raceways together. Make bends in parallel or banked runs from the same center line so that the bends are parallel. Factory elbows may be used in banked runs only where they can be installed parallel. This requires that there be a change in the plane of the run such as from wall to ceiling and that the raceways be of the same size. In other cases provide field bends for parallel raceways.

WIRE

Soft drawn annealed copper (unless otherwise noted on plans) having conductivity of not less than 98% of that of pure copper, uniform in cross section, free from flaws, scales, and other imperfections. All wire larger than #10 shall be stranded.

Insulation: Type THHN/THWN, or XHHW for all branch circuit and feeder wiring.

Sizes: No wire smaller than #12 unless otherwise noted on drawings.

Feeder conductors #2 awg and larger may be copper or AA-8000 series alluminum alloy. Alluminum conductors shall be equal or larger ampacity to copper. Conduit fill shall not exceed 40% factor as described in NEC, annex C, table C1 (copper) or C1A (alluminum).

MISCELLANEOUS MATERIALS:

13.1 Safety switches: Heavy duty, fused rejection type, minimum 200,000 A.I.C. rated. "NF" indicates not fused.

13.1.1 Label per Section 16000.22

13.1.2 Approved manufacturers are: Square D, Cutler—Hammer, Westinghouse, General Electric or same manufacturers as distribution equipment.

Fuses: "Bussmann" or "Gould Shawmut" mfg. No substitutions unless by prior written approval from Engineer, or as noted on drawings.

13.3 Conduit strap: Heavy gauge steel snap—on type.

Electrical metallic tubing fittings: Equal to T&B compression type. Connectors shall have insulated bushings.

Flexible conduit and fittings: Equal to California Conduit and Cable Company, Inc.

Rigid conduit locknuts and bushings: Equal to T&B.

Liquid tight conduit and fittings for all exterior and equipment connections.

boxes, etc: Equal to RACO. Zinc coated or Cadmium plated

sheet steel for indoor locations, cast aluminum for outdoor

Outlet boxes, plaster rings, pull, and junction

locations. For all light fixtures: Octagon or 4" square

boxes. 13.8.2 For switches and receptacles: 4" or 4-11/16"

Junction and pull boxes: 4" square minimum size. Provide with screwfastened covers located in accessible

13.9 Condulets: Equal to Crouse-Hinds.

Wire and Cable: Equal to General Cable and/or Simplex.

locations.

square boxes.

Devices: "Hubbell", "Leviton", or approved equal Receptacles: Duplex—20 amp #5362, isolated ground — 20 amp #IG-5362, GFCI- 20 amp #GF-5362. Switches: 20 amp #1221 single pole, 1222 double pole, 1223 three way, 1224 four way. Colors to be specified by Architect/Owner/Tenant.

Device plates: "Hubbell", "Leviton", or equal. Ivory nylon in interior areas or as noted on drawings. Zinc die cast flip lid mounted horizontally for exterior or weatherproof locations.

Lighting fixtures: Equal to as shown on fixture schedule or described on drawings, complete with lamps in original cartons and all canopies, stems, hangers and accessories including all structural members required for proper mounting. All fluorescent fixture ballasts shall be energy saving type. Submit shop drawings to Architect/Engineer for approval by the same. Must be C.E.C. approved in Calif.

13.14 Lamps: G.E. or equal and shall be for the maximum rated wattage of fixture unless otherwise shown on drawings.

SLEEVES. INSERTS. OPENINGS

Contractor shall layout and install his work in advance of pouring concrete floors or walls. Provide all sleeves and/or openings through floors or walls required for electrical conduits or ducts.

Sleeves shall be of rigid conduit or galvanized sheet steel rigidly supported and suitably packed to prevent entrance of wet concrete.

EXCAVATION/CUTTING/FITTING/REPAIRING/FINISHING

The Contractor shall include in his bid all excavation, compaction, fill, backfill, cutting, fitting, repairing and finishing of all work necessary for the installation of all equipment under this specification but no cutting of the work of other Contractors shall be done without the consent of the General Contractor

Earthwork shall be done in accordance with latest industry standards.

CLEANUP OF PREMISES

Contractor shall at all times keep the premises clear of waste materials and debris caused by his employees and operation. Equipment not required in the work shall be removed prior to the termination of the contract.

TESTS AND INSPECTIONS

Contractor shall test wiring and devices as sections are completed and shall correct all defects immediately at his own expense, including any damage to walls, ceilings, floor or other portions of the building which may result from replacing defective equipment.

Furnish all meters, cable, connections and apparatus necessary for making tests.

(SOME SECTIONS MAY NOT APPLY)

Test system for shorts and grounds. Faulty wiring shall be removed and replaced. Any device, apparatus or fixture installed showing substandard performance shall be removed and replaced as directed by the Architect/Engineer.

Megger all systems neutrals to insure the neutral is not grounded within the system.

All equipment rated at 1,000 amps or more, or 480 volts shall be tested for insulation breakdown prior to its being energized. Such equipment shall withstand for a period of one minute without breakdown, the application of a 60HZ alternating potential of 1,000V plus twice the rated voltage of

After the electrical wiring system installation is completed and at such time as the Architect/Engineer or his authorized representative may direct, the Contractor shall conduct an operating test for approval. Equipment shall be demonstrated to operate in accordance with requirements of specifications. Test shall be performed in presence of Architect/Engineer or his representative.

SHOP DRAWINGS

All data shall be submitted at one time, bound and indexed in an orderly manner. Prior to starting the work, submit to the Architect/Engineer for approval, six (6) sets of shop drawings of service (S.E.S.), panels, distribution sections, light fixtures, motor control centers, fire alarm system, dimmers, sound system, emergency generator, devices, transformers, labels as required by 16000.22, and all other equipment to be fabricated.

Procure shop drawings, wiring diagrams, etc., from other trades involved where such drawings may facilitate and expedite the work. Air conditioning and mechanical equipment shall be wired complete as per manufacturer's wiring diagrams furnished by the air conditioning and mechanical contractors.

DRAWINGS OF RECORD (AS-BUILT)

As—built drawings shall be submitted in accordance with and if required by Division 1 — General Requirements.

GUARANTEE

The Contractor shall guarantee all material and equipment to be free from defect of material and workmanship and shall replace or repair without cost to the owner all defective material and workmanship for a period of one year after final acceptance.

INSTRUCTIONS

Contractor shall instruct the Owner in the proper operating and maintenance of the equipment.

Contractor shall provide two (2) sets of operating and maintenance manuals for each piece of equipment provided by this discipline, only when such manuals are available from the manufacturer.

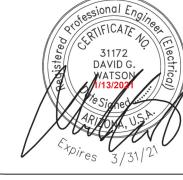
21.2.1 All manuals to be bound in a 3-ring binder and

tabulated in an orderly manner. LABELING

Labels shall be engraved, black on white melamine plastic laminate, 1/16" minimum thickness for signs up to 20 square inches or 8 inches long; 1/8" thick for larger sizes. Engraved legend shall be in white letters on black face with minimum 3/16" high letters. Labels shall be punched and fastened to equipment with aluminum rivets or self tapping stainless steel screws or number 10/32 stainless steel machine screws with nuts, flat and lock washers.

22.2 Label equipment with name, amperage, voltage, phase, and wires (i.e. Panel "A", 400A., 120/208V,30,4W). Submit list of all labels with wording for review as per

Equipment to be labeled shall include service (S.E.S.) and all overcurrent devices, distribution sections and all overcurrent devices, motor control centers (M.C.C.) and all overcurrent devices, fusible panelboards and all overcurrent devices, panels, starters and transformers. Label other equipment as noted on plans.



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70 857 Ave.

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Revision Schedule Description

These drawings are the instruments of service and the property of GGV Designs,PLLC. All design and other information on the drawings are for the purposes of this project and shall not be used

Drawn: 04/15/2020 Scale: NL74S.= 1'-0" 2019.53

TITLE: ELECTRICAL